







Digitized by the Internet Archive  
in 2014

<https://archive.org/details/b19974760M1799>





TELEPHONE NUMBER:  
BANK 852 (two lines).

**Established in  
ENGLAND, 1859.]**

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,  
LONDON, E.C.

TELEGRAPHIC ADDRESS:  
"CHEMICUS CANNON LONDON."

**Established in  
[AUSTRALASIA, 1885.]**

No. 1,718. Vol. LXXXI.

DECEMBER 28, 1912.

{ Subscription, 10s. per annum, including Diary.  
Free the World over. Single Copies, 6d. each.  
Winter and Summer Issues, 1s. each. Post Free.

## Allen & Hanburys Ltd.,

Take this opportunity of wishing  
their friends the Compliments  
of the Season, and increased pros-  
perity during the Coming Year.

### BUYERS OF

Norwegian Cod-Liver Oil

Chemical Food

Extract of Malt and Cod-Liver Oil

Cod-Liver Oil Emulsion

Extract of Malt

Compound Syrup of Figs

ARE INVITED TO  
WRITE FOR  
SAMPLES and TERMS.

□ □ □

*A Distinct Style of  
Label can be reserved  
for a Chemist in his  
Locality. Special Prices  
to Buyers in Quantities  
forwarded on request.*

**Allen & Hanburys Ltd., Bethnal Green.**



KEEP THESE POINTS IN MIND  
**DURING 1913**

YOU WILL THEN EXPERIENCE THE PROSPERITY WE WISH YOU ALL

**W**e are in business

in the hope of doing business  
with your children's children  
by establishing and maintain-  
ing the highest standard of  
trading.

**L**et us help you

to maintain your prestige by  
handling the guaranteed pro-  
ducts that we offer.

**U**are in business

that is more than a mere  
business—a scientific calling  
in which pay comes not only  
for goods but knowledge.

**TO  
MAKE  
MONEY**

**WRIGHT, LAYMAN & UMNEY, LTD.**

SOUTHWARK, LONDON, S.E.



# CHEMISTS

who deal in Photographic Goods  
are cordially invited to co-operate  
in the circulation of

## Photographic Scraps

the Ilford Monthly Journal which  
contains Articles on Photographic  
Subjects by the leading writers.

No charge is made for the Journal  
which is **not** a Trade Circular  
and offers a means of keeping  
the Chemist's name constantly  
before the public in his district  
free of expense.

**In writing please say number of copies required to  
ILFORD Limited, Ilford, London, E.**



***H*AVING SECURED THE  
CONTRACT FOR THE  
LONDON COUNTY COUNCIL  

---

---

IN OPEN COMPETITION**

For many articles which will be  
required by Chemists for use under

**The National Insurance Act**

We are in a position to supply  
Chemists eligible to go on the panel  
with many of their requirements of the  
best quality at the best possible price.

---

**WRITE FOR QUOTATIONS.**

---

---

**SANGERS, 258 Euston Road, N.W.**



# FULL PAGE ADVERTISEMENTS ARE APPEARING IN THE DAILY PAPERS DIRECTING THE PUBLIC TO CHEMISTS' ESTABLISHMENTS

THE DAILY TELEGRAPH, THURSDAY, DECEMBER 10, 1912.

Strongly recommended and prescribed by the British Medical Profession

## ECSÖLENT COMPOUND

(PRONOUNCED "EX-O-LENT")

SPEEDILY CURES ECZEMA.  
ALLAYS ALL IRRITATION.  
DELIGHTFULLY SOOTHING  
FOR THE SKIN.

A  
Treasure  
to  
Women



For various kinds of Eczema, Pimples, Blackheads, Inflammatory Spots, Skin Irritation, Sores, Redness, Roughness, Children's Rashes, Wounds, and other distressing Skin Troubles

### ENTHUSIASM OF THE MEDICAL PROFESSION

The discovery of Ecsölent Compound is a triumph of mind over matter. For years the matter of an unhealthy skin—with Eczema, Acne, Pimples and other distressing disorders—has refused to yield to the treatment prescribed. But at last an exhaustive course of scientific research has evolved new knowledge which is unanimously pronounced by the Medical mind as extraordinarily successful in its results. A Fellow of the Royal Society (M.D., London) writes: "10th July, 1911. I have repeatedly employed Ecsölent Compound, Powder and Soap during the past two years in a varied series of skin affections. I have invariably found them of great service and in many instances of Pruritus, Eczema and minor conditions quite invaluable." A London Doctor writes on the "13th October, 1910. The composition of Ecsölent Compound is all that can be desired for practically universal treatment." Another Doctor (M.D.), writing from North Wales, states: "I have found Ecsölent Preparations very useful and my patients are enthusiastic about your Compound and Soap. They are certainly pleasant to use and efficacious as a cure." Thousands of Doctors are to-day prescribing Ecsölent Compound for their patients and every day we hear of remarkable cures which are being effected from its use in various skin disorders. Convincing Medical testimony is enclosed with every jar of Ecsölent Compound.

### PHENOMENAL SUCCESS OF ECSÖLENT COMPOUND

When you read the remarkable testimony of the British Medical Press and the Medical Profession generally respecting the usefulness of Ecsölent Compound in Skin Troubles, you will not be surprised that such a Preparation has had a most phenomenally successful career. It is a success based on Medical facts and scientific experience. A London Doctor (M.D.) writes on the 20th February, 1912: "Ecsölent Compound was used in a case of Eczema, and cured the same. The patient is still using your Soap, and likes it very much." Children frequently suffer from a chronic itching eruption known as Lichen Urticatus, which is particularly distressing, but readily yields to the Ecsölent Preparations. A London Physician (M.D.) writes on the 2nd September, 1912, and states: "I applied Ecsölent Compound in severe Lichen Urticatus, as all other applications had failed to give relief. The intense irritation was promptly soothed by your Preparations, and the children slept soundly, no scratching being indulged in during sleep as had always previously happened. You are at liberty to make full use of this communication, and I shall be glad for all children to have the benefit of a trial of your Compounds when suffering from Lichen Urticatus." Another Medical Man informs us that he has tested the Ecsölent Preparations, and the result was far beyond his expectations. He further states: "In fact, a complete cure was effected in four days."

## The "British Medical Journal"

\*To the BRITISH MEDICAL JOURNAL of February 5th, 1910, p. 327, there appeared a short notice of three preparations supplied by the Ecsölent Compounds Ltd., intended for the treatment of eczema and other skin affections. These comprise an ointment, a soap, and a dusting powder. We expressed the opinion that from the composition of these preparations they may be expected to prove useful for the purpose for which they are intended. Practical experience has confirmed this expectation, expressed nearly twelve months ago. We have had the opportunity of satisfying ourselves that the Compound is of great value in the treatment of itching eruptions, and the Powder has proved an excellent application in cases of troublesome intertrigo in the folds under the breast, on the abdomen, and elsewhere. In addition to our own limited but decidedly favourable experience, we have had submitted to us a large body of authentic evidence spontaneously offered by practitioners throughout the country. Their statements refer chiefly to cases of eczema, erythema, psoriasis, pruritus, and various other skin affections. The names and professional position of those who testify to the usefulness of Ecsölent Compound are sufficient guarantees of their good faith."—British Medical Journal, January 21st, 1911

### The "Lancet" (London)

"We have analytically examined three preparations from Ecsölent Compounds, Ltd., Ecsölent Buildings, Elthorne Road, London, N.—a compound emollient, a powder, and a soap. All three are advocated for use in the treatment of eczema and other skin affections, and all three give evidence of skilful preparation. The Ecsölent Compound is a clean, white ointment showing a perfect uniformity of composition. The unguent basis is a bland unirritating vehicle. We have read favourable accounts showing the value of this preparation, particularly in itching eruptions, such as eczema, erythema, psoriasis, pruritus, and intertrigo. The Ecsölent Powder is reduced to a fine state of division and is well adapted for application as a dusting powder in various affections of the skin. It contains, according to our analysis, antiseptic and soothing agents of admitted value. Ecsölent Soap is entirely free from irritating ingredients, and made pleasant to use by the addition of antiseptic aromatics."—Lancet, 11.5.12.

### OUR FREE XMAS GIFT

#### A Full-sized Box of Ecsölent Powder

The every purchaser of a 9/6 jar of Practitioner Compound now presents a full-sized box of our world-famous Ecsölent Powder, value 1/6. Cut out this Coupon and send it, with the top portion of the wrapper in which every jar of Ecsölent Compound is packed, to our Office: Boots' Compound, Ltd., Boots' Buildings, Whitmore Road, London, W. To return you will receive from us a Full-sized 1/6 box of Ecsölent Powder as described above.

PLEASE WRITE YOUR NAME AND FULL ADDRESS DISTINCTLY.

Name, .....

A Street, .....

(O.T. 12 12 12)

### The "Practitioner" (London)

"These preparations (Ecsölent Compound, Powder, and Soap) are intended for use in eczema, pruritus, intertrigo, prickly heat, and so forth, and contain various substances well suited for the purpose, incorporated with mild antiseptic and aromatic ingredients. The compound is non-poisonous, free from glycerine and all animal fat, and remains good for an indefinite time. It forms a transparent dressing, has a most pleasant fragrance, and a refreshing and emollient effect when applied to the skin. Another advantage is its freedom from stickiness and greasiness. The Powder is absorbent and beautifully soft, forming an excellent dusting application. It is supplied unperfumed and in three shades. The soap is superfatted and very pleasant to use. The preparations have been tried extensively, and are reported on by a very large number of Practitioners, all of whom speak highly of their very great usefulness, especially in obstinate skin affections."—The Practitioner, July, 1912.

Sold at Popular Prices to suit all, 1/1½, 2/9, and 4/6 per jar. Stocked by Boots Cash Chemists, Army and Navy Stores, Taylor's Drug Co., Ltd. Ecsölent Compound Powder & Soap can be obtained at all respectable Chemists in the world. Sent Free & Post-paid from our Offices to any address in the United Kingdom, 1/2; 2/10; 4/8; per jar.

**ECSÖLENT COMPOUNDS LTD., Ecsölent Buildings, Elthorne Road, London, N.**

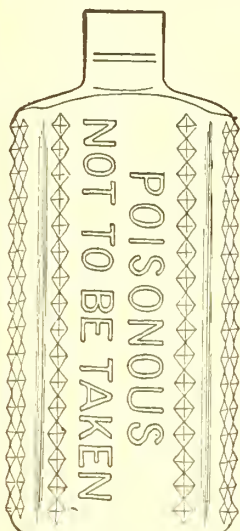
To secure a full share of this extra trade Chemists should see to their stocks of the Ecsölent Preparations without delay. Such co-operation means brisk business.



# THE "POISONOUS" POISON BOTTLE

MADE IN ENGLAND.

## The CHEAPEST POISON BOTTLE IN THE MARKET.



Front.

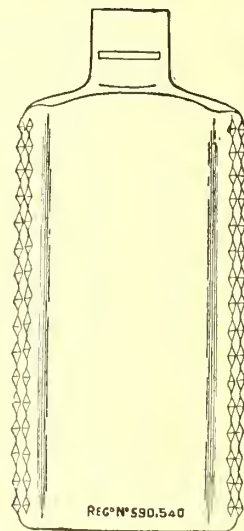
Owing to the numerous requests from the trade for a **CHEAP** Bottle to comply with the new Privy Council regulations made under the "Poisons and Pharmacy Act, 1908," the Inventors of the "Practical" Poison Bottle have designed the "**POISONOUS**" **POISON BOTTLE**, which complies with all the requirements of the new Act.

This Bottle is made with a ridge in the neck, which enables it to be used for either a rubber Stopper or a Cork, and is made in a **rich blue colour, also in pale green for Ammonia.**

Compare the following Prices with those of other Poison Bottles, and you will find them the lowest that can be obtained:—

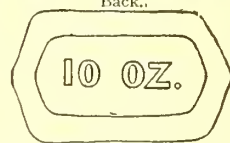
### PRICES PER GROSS.

1-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.	24-oz.
5/5	6/2	7/3	8/4	10/9	12/4	16/2	17/9	22/4	25/3	29/10



Back.

The "**POISONOUS**" **POISON BOTTLE** can be obtained from Messrs. Maw, Son & Sons; Evans Sons Lescher and Webb (London and Liverpool); Sangers; May, Roberts and Co., Ltd., or any other of the leading Wholesale Houses.



Bottom.

THE

# "IDEAL" BOTTLE

## THE BEST FOR SPECIALITIES AND PREPARATIONS.

The several flat sides have the effect of brilliantly reflecting the contents, thus greatly increasing the natural brightness of the preparation. This is evident when seen in a good light, as in a shop window. A good, attractive bottle, well labelled and finished, frequently sells a preparation.

### PRICES PER GROSS.

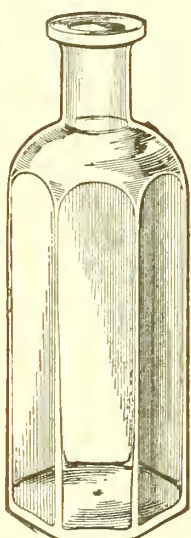
	1/2-oz.	1-oz.	1 1/2-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.
W.G. "Ideals" ...	4/10	5/5	6/2	7/-	7/10	9/5	11/7	14/-	16/8	18/3	23/8	29/-
Amber and Actinic "Ideals" ...	5/8	6/2	7/-	7/10	8/7	10/3	13/2	15/1	18/3	19/11	25/10	31/2
W.G. "Ideals" Stoppered ...	19/11	20/5	21/6	22/-	23/5	25/10	30/1	33/10	36/7	39/9	47/4	51/7
Amber and Actinic "Ideals" Stoppered ...	20/5	21/6	22/4	23/1	24/2	27/5	31/9	35/6	39/3	41/11	50/6	55/11

Compare these quotations with those of other bottles, especially the stoppered ones.

TEST THE "IDEAL" BOTTLE BY PLACING THE SAME LIQUID IN AN "IDEAL" AND AN ORDINARY ROUND BOTTLE OF THE SAME SIZE, AND SEE THE DIFFERENCE IN APPEARANCE.

The "Ideal" Bottle can be obtained from Messrs. MAW, SON & SONS, EVANS SONS LESCHER & WEBB, Ltd., SANGERS, MAY, ROBERTS & CO., Ltd., J. F. MACFARLAN & Co. (Edinburgh), and other leading Wholesale Houses.

MADE IN ENGLAND.





# INDEX TO ADVERTISEMENTS IN THIS ISSUE.

Air-Aight Capsules Co., Ltd. ....xliii	Davies, Sons & Co. ....9	Levermore, A., & Co., Ltd. ....xxiv	Schmitt & Willdenhayn .....iii
Alexandre, L. ....xxvi	Degen, F. A. ....30	Lister, R. A., & Co., Ltd. ....41	Scholl Manig, Co., Ltd. ....xxiv
Alcock's Plasters .....xliii	De St. Dalmaz A., & Co. ....xxxix	Liverpool Lint Co. ....xxix	Schutze, F., & Co., Ltd. 28. ....xxv
Allen & Hanburys, Ltd. ....Cover	Demuth, R. ....vii	Liverpool School .....29	Schwarz, A. W. ....xxxvii
Allen, Stafford & Sons, Ltd. ....13	Dodge & Olcott Co. ....xxv	Liverpool Tin Canister Co., Ltd. ....35	Sharmar's Patent Syphon Co. ....xxii
Alliance Drug & Chem. Co. ....xi	Duncan, Flockhart & Co. ....15	Lloyd, Aimes & Co. ....xxix	Shirley Bros., Ltd. ....xxiv, xxv
Allison, J. R. B. ....Col. Supp.	Edwards' Dental Manfg. Co., Ltd. ....30	Lloyd, A. S. ....xxviii	Singleton & Cole, Ltd. ....xxv
Altrincham Rubber Co. ....xxvi	Edwards' Harlene Co. ....xxxi	Lloyd, Howard, & Co., Ltd. ....xxv	Sister Lauras Infant Food Co., Ltd. ....xxv
Anglo-American Optical Co. ....30	Edwards, W., & Son .....21	Lofthouse & Saltmer, Ltd. ....xxxi	Slack, B. ....Col. Supp.
Anglo-Spanish Olival Soap Co. ....xxxi	Eeles, Walker & Co. ....28	London College .....29	Smith, B. A., & Co. ....1v
Aplin & Barrett, Ltd. ....xxi	Electrolytic Alkali Co., Ltd. ....xxv	London Essence Co. ....xxiv	Smith, T. & H., Ltd. ....17
Apollo Liquorice Juice .....v	Ellison, H., Ltd. ....xxv	Lorimer-Marshall, Ltd. ....Cover	Solazzi Liquorice Juice .....17
Atkinson & Barker .....vi	Essenol Compounds, Ltd. ....3	Lowy, Sandro .....30	Solport Bros. ....xxix
Autran, H., Ltd. ....ix	Euceryl, Ltd. ....xxxi	MacLennan, J., & Co. ....35	Sparks, White & Co., Ltd. ....xiv
Bailey, W. H., & Son .....xli	Evans Sons Lescher & Webb, Ltd. ....10	Macnair, A., & Co. ....xxvi	Spectacle Makers Co., The ....30
Baies Bros. & Stevenson, Ltd. ....19	Ewen & Sons ....xxviii	Mandall & Co., Ltd. ....xix	Spurway & Cie., Ltd. ....xxv
Baker, P. C. ....Col. Supp.	Exchange Column ....Col. Supp.	Mangold, O., & Co. ....vii	Standard Tablet & Pill Co., Ltd. ....Cover
Barnett & Foster .....xxiii	Externino Chemical Co. ....44	Manson, R. ....xxv	Stern, Sonneborn Oil Co., Ltd. ....40
Barnetts Perfumery, Ltd. ....xxvii	Fentiman, A. G. ....xxv	Marginal Co. ....xxviii	Stevens, P. A. ....xxiv
Bath & West of England School 29	Fentiman, A. J., & Co. ....xxiv	Martindale, W. ....12	Stevenson, H. E., & Co. ....45
Beecham, T. ....xliii	Fink, F., & Co. ....xxiv	Mason Bros. & Chapman .....xl	Stipendum Stopper Co. ....xxvii
Bell, J., Hills & Lucas .....xxvii	Fletcher, Fletcher & Co., Ltd. ....Text 950	Matthews, D. ....Col. Supp.	Stokes, F. J., Machine Co. ....41
Bengers' Food, Ltd. ....48	Fox & Co. (Liverpool), Ltd. ....xxv	Maw, S., Son & Sons .....11	Stolz Electrophone Co., Ltd. ....32
Bennett, Sons & Shears, Ltd. 41	Fulham Pottery & Cheavin Filter Co., Ltd. ....xl	McAdam & Tuckniss Col. Supp. ....xxx	Summer's Typhoo Tea, Ltd. ....xxii
Berdoe & Fish ....Col. Supp.	Gaasch, J. B. ....xxiv	McKesson & Robbins .....xxx	Surgical Hosiery Co. ....xliii
Berkfeld Filter Co., Ltd. ....xx	Gardner .....xxiv	McQueen, J., & Co. ....Col. Supp.	Swales, T. ....28
Berliner, A. ....xiv	Gardner, W., & Sons (Gloucester), Ltd. ....24	Melrose, Drover, Ltd. ....xix	Taverner & Sons, Ltd. ....xxiv
Betts & Co., Ltd. ....xxxi	Garthwaite, H. ....xxv	Merck, E. ....xxii	Thompson & Capper, Ltd. ....41
Bidwell, Bidwell & Co., Ltd. ....xxx	Gathergood's, Dr., Exors. ....vi	Merten, F., & Co. ....Col. Supp.	Thompson & Son, Ltd. ....46
Birmingham & Midland College 29	Gerber, W., & Son .....xli	Millar, A., & Co., Ltd. ....38	Tomlinson, T., & Son Col. Supp. ....xlii
Blackie, R. ....xxv	Goodall, Backhouse & Co. ....16	Millard Bros., Ltd. ....42	Toogood, W., Ltd. ....xxvii
Blanchet & Co. ....xxvii	Grant, D. ....34	Mumford, G. S., & Sons Text 950	Tooth's Extract of Meat Co. ....xxi
Blythe, W., & Co., Ltd. ....xxv	Guest, T., & Co. ....46	National Cash Register Co., Ltd. ....42	Tutti-Frutti Sen-Sen Co., Ltd. ....46
Boake, Roberts, A., & Co., Ltd. ....xxvii	Halder, E. C. ....xxiv	Newbery, F., & Sons, Ltd. ....xxvii	Tye, J., & Son .....xl
Boehringer, C. F., & Soehne .....liii	Hardy Patent Pick Co., Ltd. ....40	Newham, Browne & Co. ....xxv	Tyrer, Thos., & Co., Ltd. ....vii
Boehringer, C. H., & Sohn .....liii	Harley, T. ....49	Nichol's Chemical Co. ....vii	United Alkali Co., Ltd. ....40
Bohringer & Grey .....33	Harrison & Walde .....34	Nische & Gunther Optical Co., Ltd. ....31	Valda Pastilles .....xlv
Bow's, Dr., Liniment .....xiv	Harvey & Co., Ltd. ....44	Oakey, J., & Sons, Ltd. ....38	Van Esen, James, & Co., Ltd. ....xxvii
Bradley & Bourdas .....xlii	Haynes, G., & Co. ....xxiv	Odol Chemical Works .....1	Van Horn & Sawtell .....xxv
Brand & Co., Ltd. ....xxvi	Henry, T. & W. ....14	Oldfield, Pattinson & Co. ....26	Varaldi, P. ....xxv
Brett & Co. ....Col. Supp.	Hewlett, C. J., & Son, Ltd. ....ix	Orridge & Co. ....Col. Supp.	Vernon & Co., Ltd. ....xl
Bristol Myers Co. ....lii	Hommel, Dr. ....xii	Osborne, Garrett & Co. ....xxvii	Vicny Water .....xxii
British Diamond Co. ....vii	Hoffmann-La Roche Chemical Works, Ltd. ....xv	Owbridge, W. T., Ltd. ....22	Viscose Development Co., Ltd. ....xxvii
British Optical Institute ....30	Horlick's Malted Milk Co. ....xxv	Paine & Co., Ltd. ....xiv	Vittel Water .....xix
Bromley, A. W. ....Col. Supp.	Hovenden, R., & Sons .....39	Papier Poudre, Ltd. ....xxv	Wait-and-See Proprietary .....23
Brooks, Peel & Co. ....xxvii	Huntley, Boorne & Stevens, Ltd. ....42	Pattifer, S., & Sons .....44	Wardale, F. C., & Co. ....xxv
Brown & Blackburn .....xxv	Ideal Bottle .....4	Pindar, J. W., & Co. ....xxiv	Ward & Goldstone .....35
Buehler, H. ....xliii	Ideal Douche Slipper .....xl	Plucknett, C. J., & Co., Ltd. ....xxvi	Warne, W., & Co., Ltd. ....xl
Burge, Warren & Ridgley, Ltd. ....20	Idris & Co., Ltd. ....27	Poisonous Poison Bottle .....34	Warner Oliver, Ltd. ....xxvii
Burroughs, J., Ltd. ....Text 950	Iford Ltd. ....1	Prichard & Constance, Ltd. ....34	Washington Chem. Co., Ltd. ....iv
Burroughs Wellcome & Co. ....47	Ingram, J. G., & Son .....xli	Quehel, H. C., & Co. ....xxiv	Wattenbach, Oscar .....xxiv
Burt, Boulton & Haywood, Ltd. 27	Isaacs, L., & Co. ....xli	Raines & Co. ....ix	Westminster College .....29
Bush, H. W., & Co., Ltd. ....37	Jewsbury & Brown xxxvi Text 950	Randall & Son .....xxvii	Whiffen & Sons, Ltd. ....xiv
Cardamoms Cees Committee .....ii	Johnson & Sons (Manfg. Chemists), Ltd. ....35	Ransom, W., & Son .....xxvii	Whitaker & Co. ....xxix, xxxvii
Central News, Ltd. ....40	Josephs, Phillip, & Sons, Ltd. ....Col. Supp.	Rendell, W. J. ....xxvi	White, A., & Sons .....iv
Chameleon Oil Co., Ltd. ....xxv	Junora Wine .....xvi	Resinol Chemical Co. ....liii	White, A. J., Ltd. ....xx
Charitv, W., & Sons .....xv	Keane, T. ....42	Richford, C. D. ....xxv	Wholesale Chemical Works xxxvii
Chemical Works, Victoria .....xxvii	Keating, T. ....44	Riley Bros., Ltd. ....xl	Willows, Francis, Butler & Thompson, Ltd. ....xii
Chemists' Friendly Society ....Col. Supp.	Kent, G. B., & Sons Ltd. ....xxx	Robare's Ancoiline .....xxvii	Woodward, W., Ltd. ....xli
Christy, T., & Co. ....48, xxvi	Kershaw, H. E., Ltd. ....xliii	Robinson, B., & Co., Ltd. ....xxvi	Wright, Layman & Unney, Ltd. ....Cover
City of London College .....36	Kopp & Joseph .....xxxi	Rogers & Co. ....xxvii	Wrigley's, Ltd. ....x
Clyde Press .....33	Kyho Pronietary .....xxx	Rudduck & Co. ....Col. Supp.	X.L. Rubber Co. ....xxiv
Coleman & Co., Ltd. ....xix	Lambert Pharmacal Co. ....46	Rueff, Julius .....xxv	Zematone Co. ....xlii
Comet Chem. Co., Ltd. ....vii		Saccharin Corporation, Ltd. ....43	Zimmermann, A. & M. ....48
Cook, George .....34, Col. Supp.		Sangers .....2	Zimmermann, C. & Co. ....xxvii
Daisey, Ltd. ....18		Sanitas Co., Ltd. ....Text 950	
Darlington, W., & Sons .....xxvi		Sankey, J., & Sons, Ltd. ....xxix	
Davenport, J. T., Ltd. ....viii		Schliemann's Oil & Ceresine Co., Ltd. ....39	

## BUYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D

### ADVERTISING

Allison, J. R. B.  
Degen, F. A.

### AER-WATER MACHINERY

Barnett & Foster  
Flugel & Co.

### AER-WATER MATERIALS

Barnett & Foster  
Bush, W. J., & Co., Ltd.  
Flugel & Co.  
Hay, William, Ltd.  
Stevenson & Howell, Ltd.

### AERATED WATERS

Camwal, Ltd.  
Idris & Co., Ltd.  
Jewsbury & Brown

### AGENCIES, COLONIAL, & C.

Kemp & Co., Ltd.

### AIR CUSHIONS

Burge, Warren & Ridgley, Ltd.  
Surgical Hosiery Co., Ltd.

### ALMANACKS, & C.

Ford, Shepland & Co.

### ALMOND OIL

Allen, Stafford & Sons, Ltd.

### ALUMINIUM BOXES

Banoher & Haseler, Ltd.  
Eley Bros., Ltd.

### ALKALOIDS

Boehringer, O. F., & Soehne  
Boehringer, O. H., Sohn  
Burgoyne, Burbridges & Co.  
Hoffmann-La Roche, Ltd.  
Howards & Sons, Ltd.  
Macfarlan, J. F., & Co.  
Merok, E.  
Roques, Ferdinand  
Smith, T. & H., Ltd.  
Widenmann, Broicher & Co.  
Zimmermann, O., & Co.

### AMBULANCE CASES

Maw, S., Son & Sons  
AMMONIA AND SALTS  
Brown & Blackburn  
Brunner, Mond & Co., Ltd.  
Scrubb & Co., Ltd.  
White, A., & Sons

### ANÆSTHETICS

Duncan, Flockhart & Co.  
Macfarlan, J. F., & Co.  
Riedel, J. D. Co.  
Smith, T. & H., Ltd.  
Zimmermann, O., & Co.

### ANILIN DYES

Crawshaw, E., & Co.

### ANNATTO

Fullwood, R. J., & Bland  
Tomlinson & Hayward, Ltd.

### ANTI-RHEUMATIC RINGS

Burge, Warren & Ridgley, Ltd.

### ANTISEPTICS

Lambert Pharmacal Co.  
Macfarlan, J. F., & Co.  
Sanitas Co., Ltd.  
Zimmermann, C., & Co.

### ARTIFICIAL LIMBS

Haywood, J. H., Ltd.  
Maw, S., Son & Sons

### ASTHMA REMEDIES

Lofthouse & Saltmer, Ltd.  
Potter & Clarke  
Zematone Co.

### BACTERIAL VACCINES, & C.

Allen & Hanburys, Ltd.  
Burroughs Wellcome & Co.  
Duncan, Flockhart & Co.  
Evans Sons Lescher & Webb, Ltd.  
Martindale, W.  
Parke, Davis & Co.

### BALL-ROOM FLOOR POLISH

Evans Sons Lescher & Webb, Ltd.

### BALSAMS

Dodge & Olcott Co.

### BATH GLOVES

Solport Bros.

### BANDAGES

Dalmaz, A. de St., & Co.  
Macfarlan, J. F., & Co.  
Maw, S., Son & Sons  
Wood, Vincent

### BATHING CAPS

Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Sangers

### BATH CABINETS

Riley Bros., Ltd.

### BED AND DOUCHE PAN

Wileman & Co.

### BEESWAX

Schliemann's Oil & Ceresine Co.

### BELLADONNA PLASTERS

Timpson, John, & Co., Ltd.

### BINOCULARS

Darton, F., & Co.  
Maw, S., Son & Sons  
Raphael's, Ltd.

### BISMUTH SALTS

Alliance Drug & Chem. Co.  
Burgoyne, Burbridges & Co.  
Howards & Sons, Ltd.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
White, A., & Son



**BODY BELTS**

Haywood, J. H., Ltd.  
Schutze, F., & Co., Ltd.  
Wood, Vincent

**BOOKS AND MAGAZINES**

Elford "Photo Manual"  
Lewis, H. K.  
Martindale's "Extra Phar."  
Squire's "Companion"  
Squire's "Hospital Pharmacopoeias"

**BOTANIC DRUGGISTS**

Brook, Parker & Co., Ltd.  
Newball & Mason  
Potter & Clarke, Ltd.

**BOTTLES, JARS, &c., GLASS**

Barnett & Foster  
Beatson, Clark & Co., Ltd.  
Bush, Henry W., & Co., Ltd.  
"Ideal" Bottle  
Isaacs, I., & Co.  
Maw, S., Son & Sons  
Melin, O., & Co.  
"Poisonous" Poison Bottle  
Poths, H., & Co.  
Swales, Thomas  
Youldon, E., Ltd.

**BOXES**

Eeles, Walker & Co.  
Ford, Shapland & Co.  
Harrison & Waide  
Robinson & Sons, Ltd.  
Rogers & Co.  
Stipendum Stopper Co.

**BOXES, GREASEPROOF**

Rogers & Co.

**BRUSHES**

Bidwell, Bidwell & Co., Ltd.  
Hovenden, R., & Sons, Ltd.  
Keut, G. B., & Sons, Ltd.  
"Koh-i-Noor" Brushes  
Maw, S., Son & Sons

**BUTTER COLOURING**

Fullwood, R. J., & Bland  
Oldfield, Pattinson & Co.

**CACHETS**

Clark, Cicero S.  
Warrick Brothers

**CACODYLATES**

Roqueux, Ferdinand

**CAMPHOR**

Alliance Drug & Chemical Co.  
Howards & Sons, Ltd.  
May & Baker, Ltd.

**CAPS FOR BOTTLES, &c.**

Airtight Capsules Co., Ltd.  
Darter, Wilkinson & Co.  
Smith Bros. & Co.  
Viscose Co. (Self-fixing)

**CAPSULED PILLS**

McKesson & Robbins

**CAPSULES (VARIOUS)**

Airtight Capsules Co., Ltd.  
Allen & Hanburys, Ltd.  
Baies Bros. & Stevenson, Ltd.  
Betts & Co., Ltd.  
British Drug Houses, Ltd., The  
Crown Capsule Co.  
Davies, Sons & Co.  
Denoual, Jules & Co.  
Danoan, Flockhart & Co.  
Martindale, W.  
Parke, Davis & Co.  
Tye, J., & Son  
Warrick Bros.  
Wigglesworth & Co.  
Woolley, J., Sons & Co., Ltd.

**CARDAMOMS**

Cardamom Cese Committee

**CASH TILLS**

Millard Bros., Ltd.  
National Cash Register Co., Ltd.

**CASTOR OIL**

Sparke, White & Co., Ltd.  
Varaldi, F.

**CATHETERS**

Mason Bros. & Chapman  
Warne, Wm., & Co., Ltd.

**CAUSTIC SODA**

Brunner, Mond & Co., Ltd.

**CEMENTS**

Kay Bros., Ltd.

**CHALK PRECIPITATED**

Levermore, A., & Co., Ltd.  
Mumford, G. S., & Sons  
Nichols Chemical Co., Ltd.  
Sturge, John & E., Ltd.

**CHEMICALS**

Blythe, William & Co., Ltd.  
Boehringer, O. F., & Soehne  
Bramwell, E., & Son  
British Drug Houses, Ltd., The  
Brunner, Mond & Co., Ltd.  
Burgoyne, Burbidges & Co.  
Burroughs Wellcome & Co.  
Corbyn, Stacey & Co., Ltd.  
Electrolytic Alkali Co., Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Harrington Bros., Ltd.  
Hoffmann-La Roche Chem.  
Wks., Ltd.  
Howards & Sons, Ltd.  
Johnson & Sons (Mfg. Chts.)  
Knoll & Co.  
May & Baker, Ltd.  
Merok, E.  
Pointet & Girard  
Sturge, John & E., Ltd.  
Tyrer, T., & Co., Ltd.  
Washington Chemical Co., Ltd.  
White, A., & Sons  
Widenmann, Broicher & Co.  
Zimmermann, A. & M.

**CHEWING GUM**

Tutti-Frutti Sen-Sen Co., Ltd.  
Wrigley's, Ltd.

**CHLORIDE OF LIME**

Brunner, Mond & Co., Ltd.  
Electrolytic Alkali Co., Ltd.  
United Alkali Co., Ltd.

**CHLORODYNE**

Davenport, J. T., Ltd.

**CHLOROFORM**

Alliance Drug & Chem. Co.  
Burroughs Wellcome & Co.  
Bush, W. J., & Co., Ltd.  
Dnnoan, Flockhart & Co.  
Maofarlan, J. F., & Co.  
May & Baker, Ltd.  
Smith, T. & H., Ltd.

**CIGARS AND CIGARETTES**

Singleton & Cole, Ltd.

**CITRIC ACID AND CITRATES**

British Drug Houses, Ltd., The  
Burgoyne, Burbidges & Co.  
Howards & Sons, Ltd.  
Sturge, John & E., Ltd.

**CLINICAL THERMOMETERS**

Burge, Warren & Ridgley, Ltd.  
Maw, S., Son & Sons  
Perken, Son & Co., Ltd.  
Powell, J. T., & Co.  
Raphaels, Ltd.  
Zeal, H. H.

**CLIPS**

Reuter, R. J.

**CLOTH BALLS**

Senier, Alf., & Co.  
Zetts, O'Neil, & Co.

**COAL FAL SPECIALITIES**

Wright, Layman & Umney, Ltd.

**COCA**

Cadbury Bros., Ltd.

**COD LIVER OIL**

British Drug Houses, Ltd., The  
Charity, W., & Sons  
Evans Sons Lescher & Webb, Ltd.  
Lorimer Marshall, Ltd.  
Möller, Peter, Ltd.  
Sparks, White & Co., Ltd.  
Wright, Layman & Umney, Ltd.

**COLD CREAM**

Barnette Perfumery, Ltd.

**COLLAPSIBLE TUBES**

Betts & Co.

**COMBS**

Hovenden, R., & Sons, Ltd.

Reuter, R. J.

**COMPLEXION SPECIALITIES**

Rubinstein, Madame H.

**CONDENSERS**

Bennett, Sons & Shears, Ltd.

**CONFECTIONERY COLOURS**

Bush, W. J., & Co., Ltd.

**CONFECTIONERY, MEDICATED**

Guest, Thos., & Co.

**CONTINENTAL PROPS.**

Wilcox, Jozeau & Co.

**CORKS**

Ayrton, Saunders & Co., Ltd.  
Mitchell, N. W., & Sons, Ltd.

**CORN EXTERMINATOR**

Gardner

**CORN PLASTERS**

Solport Bros.

**COUNTER ADJUNCTS**

Evans Sons Lescher & Webb, Ltd.

**COUNTER SPECIALITIES**

Allen & Hanburys, Ltd.  
British Drug Houses, Ltd., The  
Burgoyne, Burbidges & Co.  
Hewlett, C. J., & Sons, Ltd.  
Wright, Layman & Umney, Ltd.

**COURT PLASTER**

Solport Bros.

**CREAM OF TARTAR**

Autran, H., Ltd.

**CREOSOTE**

Baies Bros. & Stevenson, Ltd.  
Burt, Boulton & Haywood, Ltd.

**CREPE BANDAGES**

Gimber, W., & Son  
Burge, Warren & Ridgley, Ltd.  
Leslies, Ltd.  
Norwich Crepe Co. (1856), Ltd.  
Wood, Vincent

**CYANIDES**

May & Baker, Ltd.

**DAIRY SPECIALITIES**

Fullwood, R. J., & Bland  
Oldfield, Pattinson & Co.

**DECOCTIONS, &c., CONCENT**

Wyleys, Ltd.

**DENTAL MECHANICS**

Gullwick, H. E.  
Fentiman, A. G.  
Fentiman, A. J., & Co.  
Garthwaite, H.  
Halder, E. C.  
Wardale, F. C., & Co.

**DENTAL TOOLS, ETC.**

Edwards' Dental Manfg. Co. Ltd  
Plucknett, C. J., & Co., Ltd.

**DENTIFRICES**

Beecham, T.  
Bell (John), Hills & Lucas, Ltd.  
Blackie, Robert  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Eueryl, Ltd.  
Jewsbury & Brown  
John Strange Winter  
Mason Bros. & Chapman  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Parke, Davis & Co.  
Reidel, J. D., & Co.  
Sangers  
Standard Tablet & Pill Co., Ltd.  
Woolley, J., Sons & Co., Ltd.

**DEVELOPERS (PHOTO)**

Evans Sons Lescher & Webb, Ltd.  
Express Developing Co.  
Johnson & Sons (Mfg. Chts.)

**DEXTRINE**

Fink, F., & Co.

**DIABETIC FOODS**

Van Abbot, G., & Sons

**DISINFECTANTS**

Baies Bros. & Stevenson, Ltd.  
Burt, Boulton & Haywood, Ltd.  
Condy & Mitchell, Ltd.  
Cook, E., & Co., Ltd.  
Ellison, Henry, Ltd.  
Sanitas Co., Ltd.  
Willows, Francis B. & T.  
Wright, Layman & Umney, Ltd.

**DISINTEGRATORS**

Hardy Patent Pick Co., Ltd.

**DRUGGISTS' SUNDRIES**

Ayrton, Saunders & Co., Ltd.  
Barclay & Sons, Ltd.  
Berliner, Arthur  
Burge, Warren & Ridgley, Ltd.  
Bush, H. W., & Co., Ltd.  
Christy & Co.  
Edwards, W., & Son  
Evans Sons Lescher & Webb, Ltd.  
Hovenden, R., & Sons, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Poths, H. & Co.  
Quelch, H. C., & Co.  
Reuter, R. J.  
Sangers  
Sohntze, F., & Co., Ltd.  
Solport Bros.  
Swales, Thomas  
Toogood, W., Ltd.  
Wattenbach, O.  
Woolley, J., Sons & Co., Ltd.

**DRUGS, CRUDE**

Brook, Parker & Co., Ltd.  
Gathergood's Exor.  
Goodhall, Backhouse & Co.  
Potter & Clarke, Ltd.  
Ransom, W., & Son  
Schmitt & Wildenhayn  
Sparks, White & Co., Ltd.

**DYEWARES**

Clemons, Marshall & Carbers

**EAU DE COLOGNE**

Bronnley, H., & Co., Ltd.  
Farina, J. M.  
Farina, J. M. (No. 4)  
Fickus, Courtnay & Co.  
McCracken, J. & R.  
Reuter, R. J.  
Schutze, F., & Co., Ltd.  
Spurway & Cie., Ltd.

**EDUCATIONAL INSTITS.**

Bath & West of England College  
Birmingham & Midland College  
City of London College  
College of Preceptors  
Elit's College  
Glasgow School of Pharmacy  
Liverpool School of Pharmacy  
London College of Pharmacy  
North of England School  
Northern College of Pharmacy  
South of England College  
Westminster College

**EFFERVESCENT PREPS.**

Allen & Hanburys, Ltd.  
Bishop, Alfred, Ltd.  
Bristol-Myers Co.  
Cupal, Ltd.  
Wright, Layman & Umney, Ltd.  
Wyleys, Ltd.

**ELASTIC CORDS**

MacLennan, John, & Co.

**ELASTIC HOSIERY**

Ayrton, Saunders & Co., Ltd.  
Burge, Warren & Ridgley, Ltd.  
Haywood, J. H., Ltd.  
Maw, S., Son & Sons  
Surgical Hosiery Co. Ltd.  
Wood, Vincent

**ELECTRICAL NOVELTIES**

Evans Sons Lescher & Webb, Ltd.  
Millard Bros., Ltd.  
Ward & Goldstone  
Wright, Archibald J., Ltd.

**EMERY AND CLOTH**

Oakey, J., & Son, Ltd.

**EMETINE SALTS**

Whiffen & Sons, Ltd.

**EMULSIFIERS**

Bennett, Sons & Shears, Ltd.  
Wilkinson, S. W., & Co.

**EMULSIONS, C. L. O., &c.**

Ayrton, Saunders & Co., Ltd.  
Baies Bros. & Stevenson, Ltd.  
Bonilton Macro, Ltd.  
Burgoyne, Burbidges & Co.  
Cupal, Ltd.  
Kirby, Fairbank  
Lorimer Marshall, Ltd.  
Scott & Bowne, Ltd.  
Stevenson, H. E., & Co.

**ENEMAS**

Burge, Warren & Ridgley, Ltd.  
Ingram, J. G., & Son  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Warne W., & Co., Ltd.



**EPSOM SALTS**

Howards &amp; Sons, Ltd.

**ESSENCES, SOL. AND FRUIT**

Alliance Drug & Chem. Co.  
Barnett & Foster  
Boake Roberts & Co. Ltd.  
Bush, W. J., & Co., Ltd.  
Hay, Wm., Ltd.  
London Essence Co.  
Newball & Mason  
Stevenson & Howell, Ltd.

**ESSENCES, CONCRETE**

Spurway &amp; Cie., Ltd.

**ETHERS**

Baies Bros. & Stevenson Ltd.  
Duncan, Flockhart & Co.  
Howards & Sons, Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
White, A., & Sons

**EUCALYPTUS OIL**

British Drug Houses, Ltd. The  
Stevenson, H. E., & Co.

**EYE BATHS**

Sangers

**EXTRACT OF HERBS**

Newball & Mason  
Potter & Clarke, Ltd.

**EXTRACTS (MEDICINAL)**

Allen, Stafford & Sons, Ltd.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb, Ltd.  
Gathergoods, Exors.  
Hewlett, C. J., & Son, Ltd.  
Parke, Davis & Co.  
Ransom, W., & Son

**FACTORY, & C., SITES**

North-Eastern Railway

**FEEDING BOTTLES.**

Reuter, R. J.

**FILTER PAPER**

Burgoyne, Burbidges &amp; Co.

**FILTERS**

Berkfeld Filter Co., Ltd.

**FLYCATCHERS**

Alabastine Co. (British), Ltd.  
Barraclough, J., & Co.  
Kay Bros., Ltd.  
Smith, Jno. H., & Co.  
Tunbridge & Wright

**FOODS, INVALID, ETC.**

Allen & Hanburys, Ltd.  
Aplin & Barrett, Ltd.  
Bell (John), Hills & Lucas, Ltd.  
Benger's Food, Ltd.  
Bovril, Ltd.  
Brand & Co., Ltd.  
Burgoyne, Burbidges & Co.  
Cox, Arthur H., & Co., Ltd.  
Deans, Logan & Co., Ltd.  
Fairchild Bros. & Foster  
Horlick's Malted Milk Co.  
Lofthouse & Saltmer, Ltd.  
Mealey & James, Ltd.  
Natural Food Co., Ltd.  
Pearson, E. T., & Co.  
Sister Lauras Infant Food Co.  
Willows, Francis B. & T.  
Woolley, Jas., Sons & Co., Ltd.

**FULLER'S EARTH**

Mumford, G. S., &amp; Sons

**FUMIGATORS**

Sanitas Co., Ltd.

**GLYCERIN**

Price's Patent Candle Co., Ltd.

**GLYCEROPHOSPHATES**

Merok, E.  
Pointet & Girard

**GREASE REMOVER**

Perkin &amp; Co., Ltd.

**GRINDERS, DRUG, & C.**

Allen, Stafford & Sons, Ltd.  
Goodall, Backhouse & Co.  
Willows, Francis, B. & T.  
Wright, Layman & Umney, Ltd.

**GRINDERS (MACHINE)**

Hardy Patent Pick Co., Ltd.

**GUMS**

Fink, F., & Co.  
Kildston, W. M., & Co.

**HAIR DYES**

Harker, Stagg &amp; Morgan, Ltd.

**HAND-CARTS, TRUCKS, & C.**

Crewe &amp; Co.

**HAIR PREPARATIONS**

Alexandre, L.  
Blackie, Robert  
Cabellene  
Edwards' "Harlene" Co.  
Harrison, G. W.  
John Strange Winter  
Osborne, Garrett & Co.  
Robare's Aureoline  
Van Essen, James, & Co., Ltd.  
Warner Oliver, Ltd.

**HAT CLEANERS**

Christy, Thos., & Co.  
Senier Alf., & Co.

**HAT DYES**

Whitaker &amp; Co.

**HEARING APPARATUS**

Stolz Electrophone Co., Ltd.

**HERBS**

Brook, Parker & Co., Ltd.  
Potter & Clarke, Ltd.  
Ransom, W., & Son

**HOMOEOPATHIC MEDICINES**

Ashton & Parsons, Ltd.  
Keene & Ashwell, Ltd.

**HOT-WATER BOTTLES**

Bailey, W. H., & Son  
Burge, Warren & Ridgley, Ltd.  
Fulham Pottery and Cheavin  
Filter Co., Ltd.  
Galen Manfg. Co., Ltd.  
Schutze, F., & Co., Ltd.  
Tompkins, J., Ltd.  
Toogood, William, Ltd.  
Wood Vincent  
X. L. Rubber Co.

**HOTELS**

Kingsley Hotel  
Thackeray Hotel

**HYDROGEN PEROXIDE**

May & Baker, Ltd.  
Sanitas Co., Ltd.  
Tyrer, T., & Co., Ltd.

**HYPNOTICS**

Knoll &amp; Co.

**HYPOPHOSPHITES**

May & Baker, Ltd.  
Morson, T., & Son  
Tyrer, T., & Co., Ltd.

**ICHTHYOL**

Ichthyol Gesellschaft

**INSECTICIDES**

Christy, T., & Co.  
Darlington, Wm., & Sons  
Tomlinson & Hayward, Ltd.

**INSECT POWDER**

Danyez Virus, Ltd.  
Keating, Thomas

**INSTEP SUPPORTS**

Scholl Manfg. Co.

**JUJUBES**

Guest, Thos., & Co.  
Potter & Clarke, Ltd.

**LANOLINE**

Burroughs Wellcome &amp; Co.

**LARD**

Ewen, J., &amp; Sons

**LAVENDER WATER.**

Bush, W. J., & Co., Ltd.  
Rivers, Hill & Co., Ltd.

**LEATHER BLACK**

Whitaker &amp; Co.

**LECITHIN**

Chem. Works "Victoria"

**LETTER FILES**

Eeles, Walker &amp; Co.

**LIME JUICE AND CORDIAL**

Evans Sons Lescher & Webb, Ltd.  
Goodall, Backhouse & Co.  
Idris & Co., Ltd.

**LINSEED, CRUSHED, & C.**

Mumford, G. S., &amp; Sons

**LINTS**

Liverpool Lint Co.  
Maw, S., Son & Sons  
Robinson & Sons, Ltd.  
Taylor, W. G.  
Vernon & Co., Ltd.

**LIQUORICE JUICE**

Apollo  
Evans Sons Lescher & Webb, Ltd.  
Jackson, E. E.  
Mumford, G. S., & Sons  
Solazzi

**LITHIA SALTS**

British Drug Houses, Ltd., The  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.

**LOOFAHS**

Internal. Sponge Importers, Ltd.  
Solport Bros.  
Swales, Thomas

**LOZENGES**

Ayrton, Saunders & Co., Ltd.  
Denoual, Jules & Co.  
Guest, Thos., & Co.  
Jackson, E. E.  
Potter & Clarke, Ltd.  
Raines & Co.  
Standard Tablet & Pill Co., Ltd.  
Warwick Bros., Ltd.

**MACHINERY, PHARMACAL**

Allen & Hanburys, Ltd.  
Bennett, Sons & Shears, Ltd.  
Comet Chemical Co., Ltd.  
Gardner, Wm., & Sons, Ltd.  
Hardy Patent Pick Co., Ltd.  
Lister, R. A., & Co., Ltd.  
Pindar J. W., & Co.  
Stokes, F. J., Machine Co.  
Wilkinson, S. W., & Co.

**MAGNESIA AND ITS PREPS.**

British Drug Houses, Ltd., The  
Corbyn, Stacey & Co., Ltd.  
Henry, T. & W.  
Howards & Sons, Ltd.  
Phillips, Chas. H., Chem. Co.  
Washington Chemical Co., Ltd.

**MALT EXTRACT & PREPS.**

Boulton Macro, Ltd.  
British Diamalt Co., Ltd.  
British Drug Houses, Ltd., The  
Burroughs Wellcome & Co.  
Davies, Sons & Co.  
Evans Sons Lescher & Webb, Ltd.  
Paine & Co., Ltd.

**MALVERN WATERS**

Burrow, W. &amp; J

**MANICURE CASES**

Hovenden, R., & Sons, Ltd.  
Schutze, F., & Co., Ltd.

**MARKING INK**

John Bond ("Crystal Palace")

**MEASURES, GRADUATED**

Bush, Henry W., &amp; Co., Ltd.

**MEAT EXTRACTS**

Armour & Co., Ltd.  
Bovril, Ltd.  
Brand & Co., Ltd.  
Tooth's Extract of Meat Co.

**MENTHOL CONES**

Pharm. Ind. Ges. Offenbach

**MERCURIALS**

Alliance Drug & Chem. Co.  
Howards & Sons, Ltd.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.

**METAL GOODS**

Betts & Co., Ltd.  
Eley Bros., Ltd.

**METHYLATED SPIRIT**

Burrough, J., Ltd.  
Macnair, A., & Co.  
Preston's Liverpool Distillery  
Randall & Son, Ltd.

**MICROSCOPES**

Raphael's, Ltd.

**MINERAL WATERS, SALTS**

Apollinaris Co., Ltd.  
Ingram & Royle, Ltd.  
Vichy (State Springs)  
Vittel

**MIXERS AND SIFTERS**

Comet Chemical Co., Ltd.  
Gardner, Wm., & Sons (Gloucester), Ltd.

**MUSTARD PLASTER**

Rueff, Julius

**NIGHT-LIGHTS**

Prescott &amp; Co.

**OINTMENTS**

Blackie, Robert  
Burgess, E.  
Cartwright, W. B., Ltd.  
Cox, Arthur H., & Co.  
Oldfield, Pattinson & Co.  
Peat Products (Sphagnol), Ltd.  
Smith, Maurice  
Zimmermann, Chas., & Co.

**OILS, ESSENTIAL**

Allen, Stafford & Sons, Ltd.  
Alliance Drug & Chemical Co.  
Boake, A., Roberts & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Dodge & Olcott Co.  
Evans Sons Lescher & Webb, Ltd.  
London Essence Co.  
Poppelreuter, W.  
Ransom, W., & Son  
Schimmel & Co.  
Spurway & Cie., Ltd.  
Stevenson & Howell, Ltd.  
Varaldi, F.  
Wright, Layman & Umney, Ltd.  
Zimmermann, Chas., & Co.

**OILS, MINERAL, FATTY**

Allen, Stafford & Sons, Ltd.  
Price's Patent Candle Co.  
Schliemann's Oil & Ceresine Co.  
Stern Sonneborn Oil Co., Ltd.

**OLIVE OIL**

Goodall, Backhouse & Co.  
Sparks, White & Co., Ltd.  
Varaldi, F.

**OPTICAL GOODS**

Anglo-American Optical Co.  
Botwright & Grey  
Darton, F., & Co.  
Lowy, Sandro  
Maw, S., Son & Sons  
Nitsche & Gunther Opt. Co., Ltd.  
Raphael's, Ltd.

**OPTICAL TUITION**

British Optical Institute, Ltd.  
Spectacle Makers' Company.

**ORANGE QUININE WINE**

Melrose-Drover Co., Ltd.  
Miller, A., & Co., Ltd.  
Robinson, B., & Co., Ltd.

**ORGANOTHERAPY****PRODUCTS**

British Organotherapy Co., Ltd.  
Martindale, W.

**OTTO OF ROSE**

Spurway &amp; Cie., Ltd.

**OTTO OF ROSE (SYNTH.)**

Bush, W. J., & Co., Ltd.  
Kervaudan, L.  
Kerfoot, Thos., & Co.  
Warwick Bros. Ltd.  
Wright, Layman & Umney, Ltd.

**OXYGEN BATHS**

Wright &amp; Co.

**PACKED GOODS**

Allen & Hanburys, Ltd.  
Baies Bros. & Stevenson, Ltd.  
Blackie, Robert  
Boulton Macro, Ltd.  
Brook, Parker & Co., Ltd.  
Cartwright, W. B., Ltd.  
Cox, Arthur H., & Co., Ltd.  
Christy Thos., & Co.  
Cupal, Ltd.  
Davies, Sons & Co.  
Evans Sons Lescher & Webb, Ltd.  
Goodall, Backhouse & Co.  
Harker, C. R., Stagg & Morgan  
Lofthouse & Saltmer, Ltd.  
Lorimer Marshall, Ltd.  
May, Roberts & Co., Ltd.  
Newball & Mason  
Oldfield, Pattinson & Co.  
Potter & Clarke, Ltd.  
Sangers  
Standard Tablet & Pill Co., Ltd.  
Van Essen, James, & Co., Ltd.

**PALATINIDS**

Oppenheimer, Son &amp; Co., Ltd.

**PAPER HANDKERCHIEFS**

Powell, J. T., &amp; Co.

**PARAFFINUM LIQUIDUM**

Schliemann Oil &amp; Ceresine Co.

**PASTILLES**

Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb, Ltd.  
Kerfoot, Thomas, & Co.  
Taverner & Sons, Ltd.  
Valda Pastilles  
Warwick Bros., Ltd.

**PATENT AGENTS**

Barker, R. W.  
Newnham, Browne & Co.

**PEPPERMINT OIL**

Bush, W. J., & Co., Ltd.  
Dodge & Olcott Co.



**PERFUME MATERIALS**

Boehringer, C. F., & Soehne  
 Bush, W. J., & Co., Ltd.  
 Givaudan, L.  
 Kerfoot, T., & Co.  
 Naef M., & Co., Succors.  
 Sohlmann, & Co.  
 Versaldi, F.  
 Wright, Layman & Umney, Ltd  
 Zimmermann, Chas., & Co.

**PERFUMES**

Allen & Hanburys, Ltd.  
 Baiss Bros. & Stevenson, Ltd.  
 Bannetts Perfumery, Ltd.  
 Brimley, H., & Co., Ltd.  
 Bush, W. J., & Co., Ltd.  
 Christy T., & Co.  
 Evans Sons Lescher & Webb Ltd  
 John Strange Winter  
 Kerfoot, T., & Co.  
 Lescol Perfumery Co.  
 McCracken, J. & R.  
 Pritchard & Constance, Ltd.  
 Queloh, H. O., & Co.  
 Rivers, Hill & Co., Ltd.  
 Southall Bros. & Barclay, Ltd.  
 Spurway & Cie., Ltd.  
 Warriok Bros., Ltd.  
 West, T., & Son  
 Wolf, F., & Sohn

**PESSARIES (SOLUBLE)**

Burge, Warren & Ridgley, Ltd.  
 Rendell, W. J.

**PETROLEUM JELLY**

Chesebrough Manfg. Co.  
 Gardner & Andrew  
 Schliemann's Oil & Ceresine Co.  
 Stern, Sonneborn Oil Co., Ltd.

**PHOSPHORUS AND PREPS.**

May & Baker, Ltd.

**PHOTO. CHEMICALS**

Boehringer, C. F., & Soehne  
 Johnson & Sons (Mfg. Chts.), Ltd

**PHOTO. GOODS**

Ayrton, Sanders & Co., Ltd.  
 Barclay & Sons, Ltd.  
 Burroughs Wellcome & Co.  
 Evans Sons Lescher & Webb, Ltd  
 Express Developing Co.  
 Iford Ltd.  
 Kent, G. B., & Sons, Ltd.  
 Lennan, Ltd.  
 May, Roberts & Co., Ltd.  
 Newbery, F., & Sons, Ltd.  
 Rajar, Ltd.

**PHOTO. POSTCARDS, ETC.**

Rajar, Ltd.

**PILL MAKERS**

Cox, A. H., & Co., Ltd.  
 Davies, Sons & Co.  
 Howard Lloyd & Co., Ltd.  
 Standard Tablet & Pill Co., Ltd.

**PLASTERS**

Alloock Manfg. Co.  
 Berliner, Arthur  
 Dalmas, A. de St., & Co.  
 Galen Mfg. Co., Ltd.  
 Leslies, Ltd.

**PLATE POWDER**

Lees, A., & Co.

**PLEATED PAPER**

Darter, Wilkinson & Co.  
 Smith Bros. & Co.

**POLISHES (VARIOUS)**

Bradley & Bourdas  
 Oakley, J., & Sons, Ltd.

**POSTAL BOXES**

Robinson & Sons, Ltd.

**POWDER PAPER**

Pritchard & Constance, Ltd.

**PRESS CUTTINGS**

Central News

**PRINTERS**

Clyde Press  
 Ford, Shapland & Co.  
 Harrison & Waide  
 Suttley & Silverlock, Ltd.  
 Townsend, J., & Sons

**PROPRIETARY ARTICLES**

Anglo-American Pharm. Co.  
 Anglo-Indian Drug & Chem. Co.

**PROPRIETARY ART.—cont.**

Aplin & Barrett, Ltd.  
 Ashton & Parsons, Ltd.  
 Autran, H., Ltd.  
 Barolay & Sons, Ltd.  
 Beecham, T.  
 Bow's Liniment, Ltd.  
 British Drug Houses, Ltd., The  
 Burgess, E.  
 Carnrick, G. W., Co.  
 Chameleon Oil Co., Ltd.  
 Christy, T., & Co.  
 Coleman & Co., Ltd.  
 Corbyn, Stacey & Co., Ltd.  
 Crimson Cross Dispensary  
 Cupal, Ltd.  
 Cyona Co., Ltd.  
 Daisy, Ltd.  
 Davenport, J. T., Ltd.  
 Demuth, R.  
 Duncan, Flockhart & Co.  
 Ecsolent Compounds, Ltd.  
 Edwards, W., & Son  
 Evans Sons Lescher & Webb, Ltd  
 Faulding, F. H., & Co.  
 Fellows' Med. Manfg. Co.  
 Fennings, Alfred  
 Ferris & Co., Ltd.  
 Fox & Co. (Liverpool), Ltd.  
 Fulford, C. E., Ltd.  
 Goodall, Backhouse & Co.  
 Harrison, Geo. W.  
 Henry, T. & W.  
 Hommel's (Dr.) Hæmatogen  
 Iohthylol Gesellschaft  
 Kay Bros., Ltd.  
 Kutnow, S., & Co., Ltd.  
 Mandell & Co., Ltd.  
 Martindale, W.  
 May, Roberts & Co., Ltd.  
 Mergentheim Tablets  
 Newbery, F., & Sons, Ltd.  
 Odol Chemical Works  
 Oppenheimer, Son & Co., Ltd.  
 Owbridge, W. T., Ltd.  
 Phillips, Chas. H., Chem. Co.  
 Phistol, Ltd.  
 Primer, J.  
 Resinol Chemical Co.  
 Riedel, J. D., Co.  
 Rubinstein, Madame H.  
 Sangers  
 Schimmel & Co.  
 Scott & Bowne, Ltd.  
 Squire & Sons  
 Standard Tablet & Pill Co., Ltd  
 Thompson & Capper  
 Tunbridge & Wright  
 Urillao Manfg. Co.  
 Valda Pastilles  
 Wait-and-See Proprietary  
 Warrick Brothers, Ltd.  
 White, A. J., Ltd.  
 Wilcox, Jozeau, & Co.  
 Woodward, W., Ltd.  
 Wright, Layman & Umney, Ltd.  
 Zimmermann, C., & Co

**PUFFS**

Solport Bros.

**PUMPS**

Berkefeld Filter Co., Ltd.

**QUININE AND SALTS**

Alliance Drug & Chem. Co.  
 Boehringer, C. F., & Soehne  
 Buehler & Co.  
 Corbyn, Stacey & Co., Ltd.  
 Howards & Sons, Ltd.  
 Pointet & Girard

**RADIO-ACTIVE MINERALS**

Harrington Bros., Ltd.

**RADIUM**

Buehler & Co.

**RAZOR STROPPER**

Barclay & Sons, Ltd.

**RENNET**

Fullwood & Bland  
 Oldfield, Pattinson & Co.

**RESINS AND RESINOIDS**

Allen, S., & Sons, Ltd  
 Macfarlan, J. F., & Co.  
 Morson, T., & Son  
 Ransom, W., & Son  
 Smith T. & H., Ltd.

**RESPIRATORS**

Zimmer & Co.

**RIBBONS, CORDS, &c.**

MacLennan, John, & Co.

**RUBBER GOODS**

Berliner, Arthur  
 Burge, Warren & Ridgley, Ltd.  
 Haywood, J. H., Ltd.  
 Ingram, J. G., & Son  
 Maw, S., Son & Sons  
 Surgical Hosiery Co., Ltd.  
 Tompkins, James, Ltd.  
 Warne, W., & Co., Ltd.  
 X. L. Rubber Co.

**RUBBER STAMPS**

Richford, C. D.

**SACCHARIN**

Saccharin Corporation, Ltd.

**SAMPLE CASES**

Keane, Thomas

**SANTONIN**

Smith, B. A., & Co.

**SAPONIN**

Field, C. W.

**SCIENTIFIC APPARATUS**

Reynolds & Branson, Ltd.  
 Perken, Son & Co., Ltd.

**SEA SALT**

Tidman & Son, Ltd.

**SEED-DRESSING**

Hawker, Arthur E.  
 Tomlinson & Hayward, Ltd.

**SERUMS AND ANTITOXINS**

Allen & Hanburys, Ltd.  
 Burroughs Wellcome & Co.  
 Evans Sons Lescher & Webb, Ltd  
 Parke, Davis & Co.  
 Schimmel & Co.  
 Wilcox, Jozeau & Co.

**SHAMPOO POWDERS**

Standard Tablet & Pill Co., Ltd.

**SHARES**

McAdam & Tuckniss

**SHEEP DIPS**

Burt, Boulton & Haywood

**SHEEP MEDICINES**

Pettifer, Stephen, & Sons

**SHELLAC**

Kershaw, H. E., Ltd.

**SHOP FITTING**

Ayrton-Graham, Ltd.  
 Cook, George  
 Evans Sons Lescher & Webb, Ltd  
 Grant, D.  
 Josephs, Philip, & Sons, Ltd.  
 Maw, S., Son & Sons  
 Parnall & Sons, Ltd.  
 Rudduck & Co.  
 Sangers

**SHOW STANDS**

London and Colonial Manfg. Co.

**SOAPS, TOILET, &c.**

Allen & Hanburys, Ltd.  
 Armour & Co., Ltd.  
 Bell, John Hills & Lucas, Ltd.  
 Brannley, H., & Co., Ltd.  
 Chesebrough Manfg. Co.  
 Christy Thos., & Co.  
 Cook, E., & Co., Ltd  
 Eueryl, Ltd.  
 Evans Sons Lescher & Webb, Ltd  
 Fulford, C. E., Ltd.  
 Harrison, G. W.  
 Hovenden, R., & Sons, Ltd.  
 John Strange Winter  
 Lescol Perfumery Co.  
 Margonal Co.  
 Olival Anglo-Spanish Soap Co.  
 Pears, A. & F., Ltd  
 Peat Products (Sphagnol), Ltd.  
 Price's Patent Candle Co.  
 Resinol Chemical Co.  
 Wolff, F., & Sohn  
 Wright, Layman & Umney, Ltd.

**SHOULDER STRAPS**

Wood, Vincent

**SODA FOUNTAINS**

Flugel & Co.

**SODIUM BICARBONATE**

Brunner, Mond & Co., Ltd.  
 Electrolytic Alkali Co., Ltd.  
 Howards & Sons, Ltd.  
 Mumford, G. S., & Sons

**SOOTHERS**

Newbery, F., & Sons, Ltd.  
 Schutze, F., & Co. Ltd.

**SPECTACLES**

Botwright & Grey  
 Darton, F., & Co.  
 Maw, S., Son & Sons  
 Nitsche & Gunther Opt. Co., Ltd  
 Raphael's, Ltd.

**SPICES**

Goodall, Backhouse & Co.

**SPIRIT OF WINE**

Burrough, J., Ltd.  
 Preston's Liverpool Distillery  
 Co., Ltd.

**SPONGES**

Internl. Sponge Importers, Ltd.

**SPRAYS**

Burge, Warren & Ridgley, Ltd.  
 Hovenden, R., & Sons, Ltd.  
 Maw, S., Son & Sons  
 Parke, Davis & Co.  
 Sangers  
 Toogood, Wm., Ltd.

**SPRINKLER CORKS**

Betts & Co., Ltd.

**STARCH**

Mumford, G. S., & Sons

**STILLS**

Bennett, Sons & Shears, Ltd.  
 Stokes, F. J., Machine Co.

**STOPPERS**

Stipendum Stopper Co.

**SUPPOSITORIES**

Peat Products (Sphagnol), Ltd.

**SURGICAL APPLIANCES AND DRESSINGS**

Allen & Hanburys, Ltd.  
 Bailey, W. H., & Son, Ltd.  
 Berliner, Arthur  
 Burroughs Wellcome & Co.  
 Bush, H. W., & Co., Ltd.  
 Dalmas, A. de St., & Co.  
 Davis, John Morgan, & Sons  
 Galen Manfg. Co. Ltd.  
 Gimber, W., & Son  
 Haynes, G., & Co.  
 Haywood, J. H., Ltd.  
 Liverpool Lint Co.  
 Macfarlan, J. F., & Co.  
 Martindale, W.  
 Mason Bros. & Chapman  
 Maw, S., Son & Sons  
 Queloh, H. C., & Co.  
 Reynolds & Branson, Ltd.  
 Robinson & Sons, Ltd.  
 Surgical Hosiery Co., Ltd.  
 Taylor, W. G.  
 Warne, W., & Co., Ltd.  
 Wood, Vincent  
 Woolley, J., Sons & Co., Ltd.

**SYPHONS**

Barnett & Foster  
 Camwal, Ltd.  
 Idris & Co. Ltd.  
 Sharman's Pat. Syphon Co., Ltd

**SYRINGES**

Bush, H. W., & Co., Ltd

**SYRUPS, MEDICINAL**

Fellows' Med. Mnfng Co



**TABLET MACHINERY**

Allen & Hanburys, Ltd.  
Bennett, Sons & Shears, Ltd.  
Thompson & Capper  
Wilkinson, S. W., & Co.

**TABLETS, COMPRESSED**

Allen & Hanburys, Ltd.  
Pisshop, Alfred Ltd.  
British Drug Houses, Ltd., The  
Burgoyne, Burdidges & Co.  
Cartwright, W. B., Ltd.  
Cox A. H., & Co., Ltd.  
Davies, Sons & Co.  
Duncan, Flockhart & Co.  
Evans Sons Lescher & Webb, Ltd.  
Howards & Sons, Ltd.  
Howard Lloyd & Co., Ltd.  
Johnson & Sons (Mfg. Chts.)  
Martindale, W.  
Parke, Davis & Co.  
Standard Tablet & Pill Co., Ltd.  
Thompson & Capper  
Wand Manfg. Co.  
Wigglesworth & Co.

**"TABLOID" PRODUCTS**

Burroughs Wellcome & Co.

**TARTARIC ACID**

British Drug Houses, Ltd., The  
Boehringer, C. H., Sohn

**TEA (TANNIN-LESS)**

Summer's Typhoo Tea, Ltd.

**TEATS (I.R.)**

Ingram, J. G., & Son

**TIN BOX MAKERS**

Goodall, Backhouse & Co.  
Huntley, Boorne & Stevens  
Liverpool Tin Canister Co., Ltd.  
Shirley Bros., Ltd.

**TINCTURE PRESS**

Lister, R. A., & Co., Ltd.

**TOBACCO**

Singleton & Cole, Ltd.

**TOILET ARTICLES**

Allen & Hanburys, Ltd.  
Armour & Co., Ltd.

**TOILET ARTICLES—cont.**

Ayrton, Saunders & Co., Ltd.  
Beetham, M., & Son  
Blackie, Robert  
Bronnley, H., & Co., Ltd.  
Burroughs Wellcome & Co.  
Chesebrough Mfg. Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Cox, Arthur H., & Co., Ltd.  
Daisy, Ltd.  
Edwards' Harlene Co.  
Eueryl, Ltd.  
Fulford, C. E., Ltd.  
Harker, Stagg & Morgan, Ltd.  
Hovenden, R., & Sons, Ltd.  
John Strange Winter  
Lloyd A., & Co.  
Lloyd, A. S. (Hovenden)  
Lorimer Marshall, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co., Ltd.  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Osborne Garrett & Co.  
Papier Poudré, Ltd.  
Parke, Davis & Co.  
Priehard & Constance, Ltd.  
Queloh, H. C., & Co.  
Rubinstein, Madame H.  
Sangers  
Softo Manfg. Co.  
Solport Bros.  
Southall Bros. & Barolay, Ltd.  
Standard Tablet & Pill Co., Ltd.  
Van Essen, James, & Co., Ltd.  
Wholesale Chemical Works  
Woolley, J., Sons & Co., Ltd.

**TOILET PAPER**

Ayrton, Saunders & Co., Ltd.  
Burgoyne, Burdidges & Co.  
Ford, Shapland & Co.  
Manson, R.  
Townsend, J., & Sons

**TRADE-MARKS AGENTS**

Barker, R. W.  
Ford, Shapland & Co.  
Newnham, Browne & Co.

**TOOTH STOPPING**

Stevens, P. A.

**TURNED WOOD BOXES**

Rogers & Co.

**TRUSSES**

Bailey, W. H., & Son, Ltd.  
Bush, Henry W., & Co., Ltd.  
Coles, William & Co.  
Davie John Morgan, & Sons  
Haywood, J. H., Ltd.  
Maw, S., Son & Sons  
Schutze, F., & Co., Ltd.  
Wood, Vincent  
Woolley, J., Sons & Co., Ltd.

**VACUUM FLASKS**

Millard Bros., Ltd.  
Reuter, R. J.

**VACUUM PANS**

Bennett, Sons & Shears, Ltd.  
Stokes, F. J., Machine Co.

**VALUERS**

Baker, P. C.  
Berdoo & Fish  
Brett & Co.  
Orridge & Co.  
Tomlinson, T., & Son

**VAPORIZERS**

Evans Sons Lescher & Webb, Ltd.  
Sanitas Co., Ltd.

**VASELINE**

Chesebrough Mfg. Co.

**VERMIN-KILLERS**

Battle, Son & Maltby  
Danezy Virus, Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Farmer, F., & Co.  
Harley, Thomas  
Harrison, G. W.

**VETERINARY INSTRUMENTS**

Mason Bros. & Chapman  
Maw, S., Son & Sons

**VINEGAR**

Grimble & Co.

**VETERINARY REMEDIES**

Chesebrough Mfg. Co.  
Christy, Thos., & Co.  
Day & Sons (Crewe), Ltd.  
Edwards, W., & Son  
Harvey & Co. (Dublin), Ltd.  
Pettifer, Stephen, & Sons  
Senior, Alf., & Co.  
Tomlinson & Hayward, Ltd.  
Wyleys, Ltd.  
Zimmermann, C., & Co.

**WATER STILLs**

Stokes, F. J., Machine Co.

**WATERS, CONCENTRATED**

Robinson, B., & Co., Ltd.

**WAXES**

Kidston, W. M., & Co.

**WEED-KILLERS**

Burt, Boulton & Haywood  
Harrison, G. W.  
Tomlinson & Hayward, Ltd.

**WEIGHING MACHINES**

Maw, S., Son & Sons  
Shoppee, Albert C.

**WINDOW BRACKETS**

Ayrton-Graham, Ltd.

**WINDOW TICKETS**

Merten, F., & Co.

**WINES**

Burrough, J., Ltd.  
Smith, S., & Co., Ltd.

**WINES, MEDICATED**

Ayrton, Saunders & Co., Ltd.  
Burrough, J., Ltd.  
Burroughs Wellcome & Co.  
Coleman & Co., Ltd.  
Deans, Logan & Co., Ltd.  
Fletcher, Fletcher & Co.  
Idris & Co., Ltd.  
Robinson, B., & Co., Ltd.  
Smith, S., & Co., Ltd.

**WRIST STRAPS**

Solport Bros.

**ZINC OXIDE**

Hubbuck, T., & Son, Ltd.  
Stevenson, H. E., & Co.

# YOUR REQUIREMENTS BOOKED FOR

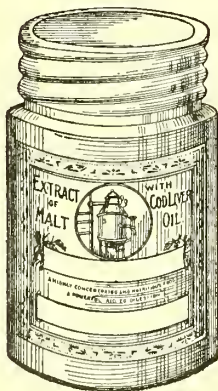
## EXTRACT OF MALT

## EXTRACT OF MALT

WITH COD LIVER OIL

NEATLY PACKED.

OF FINEST QUALITY



**FREE PACKAGES.**  
**FREE SHOWCARDS.**  
**FREE DELIVERY.**

A Chemist to Royalty  
says:—"Stuff is very  
good."

A London Chemist  
says:—"Put same  
label as last year."

**PACKED IN PATENT JARS.**  
**OWN NAME ON LABEL.**

*Davies, Sons & Co*

Manufacturing Chemists,

**THE BRIDGE STREET, DERBY.**

**Have you ordered your  
Lung Tonic yet?**





REGISTERED.

# The Symbol of Quality on Everything for Chemists

---

**CRUDE DRUGS  
FINE CHEMICALS  
GALENICALS**

**COUNTER ADJUNCTS  
ESSENTIAL OILS  
SHOP FITTINGS**

---

## NEW YEAR 1913

*Once more we wish our ever-increasing  
circle of friends at home and abroad  
the best of all good things in the  
coming Year.*

---

**DRUGGISTS' SUNDRIES  
OPTICAL GOODS  
PATENT MEDICINES, &c.**

**PHOTO REQUISITES  
PERFUMERY  
TOILET ARTICLES**

# **EVANS SONS LESCHER & WEBB, LD.**

**LIVERPOOL and LONDON.**

Telegrams : "Basilio Liverpool" : "Lescher, Cent, London."  
Telephone Numbers : Liverpool—General, Royal 1447 (2 wires)  
Town—Royal 1920 (3 wires)  
London—Holborn 6155 (3 wires)



No. 63.

S. MAW, SON &amp; SONS

7 TO 12, ALDERSGATE ST  
LONDON, E.C.

Maw's

Page.

Telegraphic Address: "ELEVEN LONDON."

Telephone No.: LONDON WALL 3230 (4 lines)

Work is the grand cure of all the maladies and miseries that ever beset mankind.

THOMAS CARLYLE.

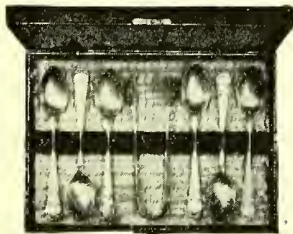
Make a New Year resolution. Sell "Maw" Quality goods at every opportunity. It will make your work a pleasure. Our name ensures satisfaction.

## Maw's Page

FRIDAY MORNING DEC. 27th, 1912.

To-day we are able to announce a splendid opportunity for Pharmacists who wish to add to their enema stock for the New Year. The majority of our most popular patterns have been reduced in price, as follows: B1401/B, "Nulli Secundus" (without seam), from 30/- to 28/- dozen. B1402/B, "No. 11," Arabesque, Maw's Super, from 50/- to 48/- dozen. B1404/B, from 44/- to 42/- dozen. B1405/B, "Colonial" Arabesque rubber, from 33/- to 31/- dozen. B1407/B, from 32/- to 30/- dozen. B1415/B, "Mater" (Black), from 26/- to 25/- dozen. B1418/B, "Nursery" (for infants), from 22/- to 21/- dozen; and No. B1419/B, "Popular" (Black), from 24/- to 22/- dozen. Illustrations of the majority of the above will be found on pp. 229-230 of our List. We suggest that our customers should take advantage of these remarkably low prices, while Pharmacists who are unacquainted with "Maw" value here an excellent opportunity to introduce some really good enemas to their customers. Every pattern is a profitable one. **MSS**

## A NEW YEAR'S GIFT.



EP402. Six afternoon Tea Spoons and Tongs in case, 5/3.

We suggest that the above would make a very acceptable and lasting New Year's gift for a sister, mother, or friend. Better set (EP404), 10/-.



FOR every four women who were using Maw's "Massene" Face Massage Sets a month ago, *forty* are using them to-day. But *we* are keeping pace with the demand. Are *you* supplying it? It's profitable! "Massene" Sets, 3/6, 7/6, 14/-. Retail: 5/-, 10/6, 21/- Set. Our free "Massene" publicity matter is distinctly good.

GOOD :: ::  
SALECARDS :: ::  
THAT SELL  
GOODS. No. 9

It is appropriate that such a small perfume spray as the "Tiny" should have a miniature salecard to accompany it, and the one we supply free with all orders measures but  $7\frac{1}{4}$  in. by  $4\frac{1}{4}$  in., printed in a dark blue on "Maw" grey. It is indeed the "Tiny card with big selling value."

The "Tiny Perfume Sprays" are just the thing that will appeal to customers who are looking for a suitable but simple New Year gift. Price, each in a box, per doz., 21/-. The action of the "Tiny" Spray is atmospheric, and no bellows are used. Each Spray is covered with real "crushed" morocco leather

MAW'S  
**'TINY'**  
PERFUME SPRAY

FOR HANDBAG OR POCKET

**SIMPLE & SECURE**  
PUMP ACTION & NO BELLOW  
MOUNTED WITH REAL  
CRUSHED MOROCCO LEATHER

PRICE **2/6** EACH

S. MAW SON & SONS LONDON

IN TWO COLOURS ( $7\frac{1}{4}$  in.  $\times$   $4\frac{1}{4}$  in.),

## "LANOLINE"

A "COLD WEATHER" LINE.

Agreeably perfumed, and exceedingly softening and soothing to the skin, Maw's Toilet Lanoline is sure of a steady sale among ladies. This is just the time to judge how good a line it inevitably proves. Maw's Toilet Lanoline is put up in collapsible tubes, at prices as below, also in opal glass jars with celluloid covers, at 3/3 per dozen. It is usual to stock both kinds. Customers may have a preference for one of the two, but they are unanimous as regards the Lanoline. Because each tube and jar bears our name.

IN  
OPAL  
GLASS  
JARS,  
PER  
DOZ.  
3/3



IN  
TUBES  
PER  
DOZ.  
2/4  
3/-  
AND  
3/9

## Order Now.

(A few hints for this week compiled for the guidance of Pharmacists.)

MAW'S INDIARUBBER MUFF WARMERS. REDUCED TO 2/10 EACH.

MAW'S INDIARUBBER TUBING FOR FEEDING BOTTLES. REDUCED PRICES. BLACK, 'BEST QUALITY,' PER LB. (ABOUT 34 YARDS), 13/- BLACK, PER LB. (ABOUT 40 YARDS), 7/6. WHITE, PER LB. (ABOUT 25 YARDS), 7/6.

53/28.12.12





A typical Martindale product prescribed by the medical profession and sold by Pharmacists in all parts of the world. In our periodical price-lists wholesalers, exporters, and retailers will find many other Martindale specialties of equal merit and favour. Do you receive our lists regularly? If not, you are missing opportunities of increasing in that Happiness and Prosperity we wish our friends.

---

*To our brother Pharmacists  
the World over,*

REETING & GOOD  
WISHES FOR THE  
COMING YEAR.

---

**W. MARTINDALE, 10 NEW CAVENDISH ST., W.**



ESTABLISHED 1833.

# STAFFORD ALLEN & SONS

LIMITED.

*Essential Oil Distillers,  
Millers of Absolutely Pure Drugs and Spices.  
Expressers of Almond Oil.*

PAST

FUTURE

**FRIENDLY  
GREETINGS**

to the Drug  
Trade the  
world over.

1833

1913

*Manufacturing Chemists,*

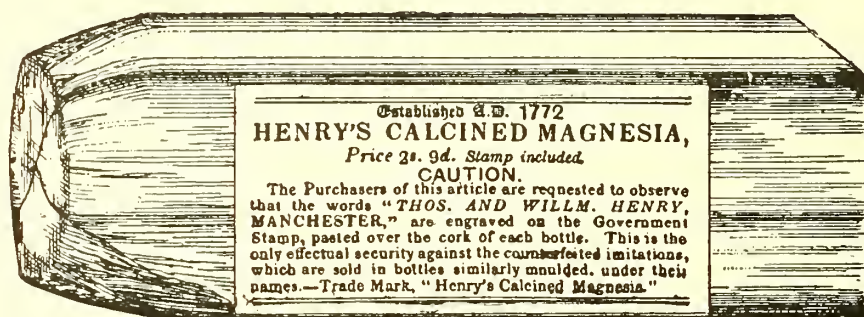
*Makers of  
Liquid, Solid and Powdered Extracts,  
Resins and Oleo-Resins,  
Scale Preparations,*

*Manufacturers of Pharmaceutical Preparations.*

**Cowper Street, Finsbury,  
LONDON, E.C.**



# *The Standard* CALCINED MAGNESIA



*Known and esteemed  
throughout the Drug  
Trade for nearly a  
century and a half.*

Greetings and Good Wishes to our  
friends all over the world. May the  
New Year be a record in prosperity  
for you.

*Xmas 1912.*

*New Year 1913.*

---

## Thomas & William Henry,

11 EAST STREET, ST. PETER'S, MANCHESTER.





The Quality Mark for Anæsthetics  
and for Scientifically Prepared  
Pharmaceutical Specialities.

*The  
Compliments of the Season  
to all in the  
Drug and Chemical Trade,  
and a  
Prosperous New Year.*

DUNCAN'S  
Ethers Chloroform Ethylchloride &  
Exact Pharmaceutical Preparations.

DUNCAN, FLOCKHART & CO.,  
EDINBURGH,  
and 143 Farringdon Rd., London, E.C.





HEARTY  
GOOD WISHES FOR  
**A PROSPEROUS**  
AND  
**PROFITABLE**  
**NEW YEAR**  
TO ALL IN THE  
DRUG TRADE.

MAKERS OF  
DECORATED  
TIN  
CANISTERS.

IMPORTERS  
& GRINDERS  
OF DRUGS  
& SPICES.

PACKERS OF  
CULINARY  
ESSENCES,  
SALINES, &c.

*GOODALL, BACKHOUSE & Co.*  
*WHITEHORSE STREET,*  
*LEEDS,*

& 54 SOUTHWARK STREET, LONDON, S.E.





**Heartiest Good Wishes to all  
in the Chemical and Drug  
Trades in all parts of the  
world for a record New  
Year of Prosperity.**

NEW YEAR

1913

## **MORPHINE : STRYCHNINE : CODEINE**

Morphine Esters

Aloin

Capsicin

Gingerin

Podophyllin

Salicin

Ergotin

**and its Salts.**

GRAND PRIX, PARIS, 1900  
GRAND PRIX, FRANCO-BRITISH, 1908  
GRAND PRIX, BRUSSELS, 1910

Caffeine  
and its  
SaltsChloroform  
Scammony

Resin

Jalap

Resin

# **T. & H. Smith, Ltd.**

EDINBURGH :

BLANDFIELD CHEMICAL WORKS.

LONDON :

22 CITY RD., E.C.

GLASGOW :

37 WASHINGTON ST.





1893-1913.

Just out of her teens,  
and more run after than  
ever !!

To all our friends in the  
Trade

A Happy  
and  
Prosperous New Year  
from

**DAISY, LTD.,**  
Mammoth Works, **LEEDS.**



# The Season's Greetings.

---

**1833—1913.**

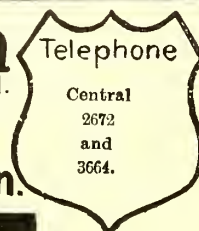
---

**W**E welcome this, our 80th opportunity of wishing our friends everywhere—at home and abroad—  
“A PROSPEROUS NEW YEAR.”  
We are glad to think that the Year just passing has seen the cementing of our old friendships, and the initiation of many new and pleasant business relations in all parts of the world.

Concentrated Infusions and Decoctions, Disinfectants, Drugs, Emulsion of Cod Liver Oil, Essential Oils, Extracts, Fine Chemicals, Druggists' Sundries, Pills and Tablets, Surgical Instruments, &c. &c.

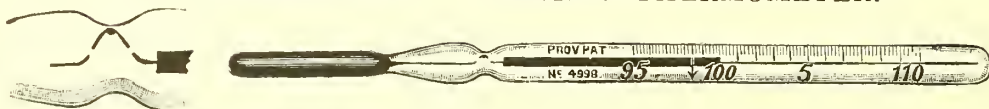


**Baiss Brothers & Stevenson**  
Limited.  
MANUFACTURING CHEMISTS & WHOLESALE DRUGGISTS  
**174-175 Grange Rd., Bermondsey, London.**





THE "DUO-IN-UNO" CLINICAL THERMOMETER.



(QUICK SHAKE DOWN.)

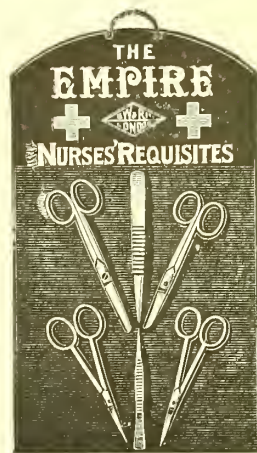
*New Year 1913.*

Very best wishes to our many friends  
in the Drug Trade all over the  
British Empire for the best  
of Prosperity in the New  
Year. You will ensure  
it by stocking only

# "EMPIRE"



HOT WATER BOTTLES,  
NURSING REQUISITES,  
CLINICAL  
THERMOMETERS,  
WATER BEDS,  
AIR CUSHIONS,  
ENEMA SYRINGES,  
DRESSING COMBS,  
&c. &c.



**BURGE, WARREN, & RIDGLEY, LTD.,**  
91-92 Great Saffron Hill,  
**LONDON, E.C.**

Tel. No. : Central 8572.

Tel. Add. : "Pessaries London."



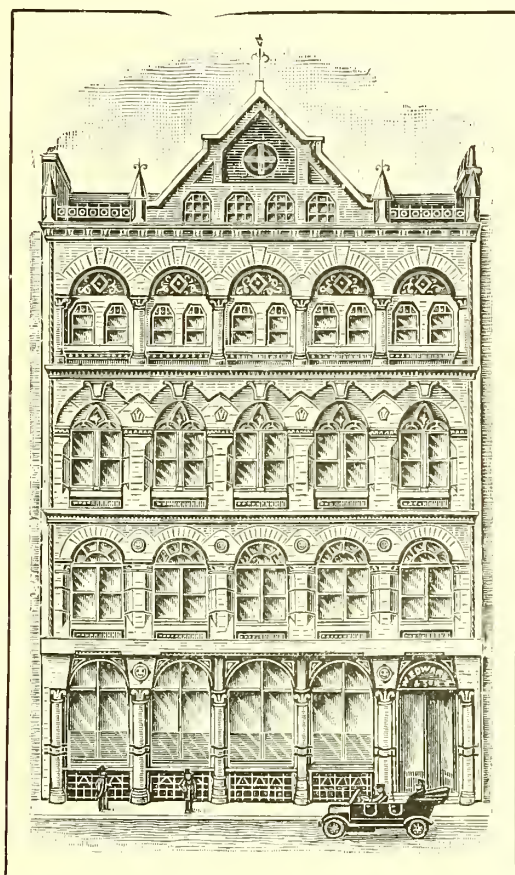
Telephones :  
Central 5698 ; Bank 285.

Telegrams :  
"Medicines, Cent, London."

# W. EDWARDS & SON,

157 Queen Victoria Street and  
239 & 240 Upper Thames Street, London, E.C.,

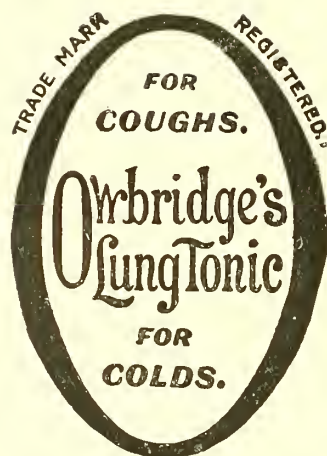
*Proprietary  
Articles.*



*Druggists'  
Sundries.*

send Christmas Greetings to their Customers  
and the Trade, with Best Wishes for  
A Prosperous New Year.





To guard against imitations  
of the **Real Thing**, chemists  
should be sure when buying  
lung tonic that this registered  
Trade Mark is on the carton.

**Heartiest Good Wishes for your  
Prosperity to all in the Drug  
Trade during the New Year.**

*Xmas 1912*



*New Year 1913*

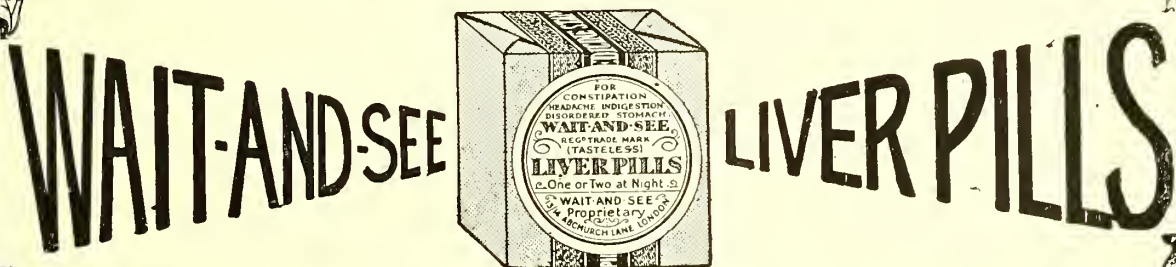


The Sale of a Popular and Quick-selling Proprietary is  
the surest way to secure

# PROFIT PROSPERITY & HAPPINESS

in the New Year. We take this opportunity of tendering  
our Sincere Thanks to Chemists for their past support  
and co-operation, and send Heartiest Greetings and Good  
Wishes for the

## NEW YEAR.



are a genuine remedy for all hepatic derangements com-  
pounded from the formula of an English Physician, and  
are therefore a proprietary the Chemist can sell with  
confidence. Every purchaser means a satisfied customer.  
They give an exceptionally large profit, are extensively  
advertised and the price is protected.

Stocked by all Leading Wholesalers, order NOW and send us a  
postcard for attractive, sales-creating Showcard, Dummies, &c.

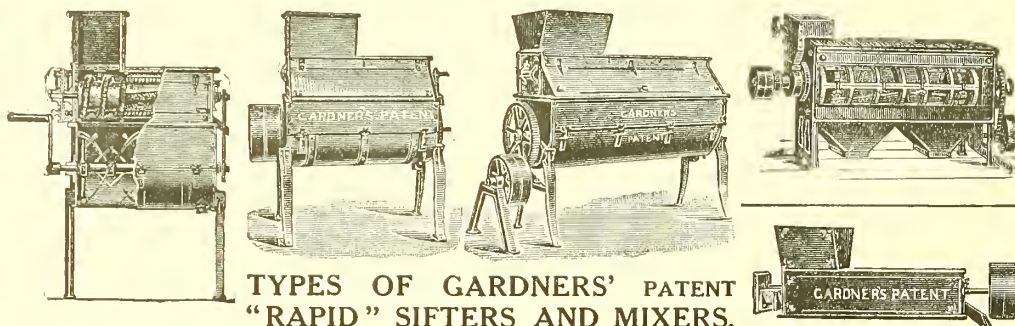
**WAIT-AND-SEE PROPRIETARY,**  
**13 & 14 Abchurch Lane, London, E.C.**



GARDNERS wish you  
plenty of orders for

**"POWDERED" & "MIXED" GOODS**

in the New Year.



TYPES OF GARDNERS' PATENT  
"RAPID" SIFTERS AND MIXERS.

As you will be trying various means  
Your fortune to forward and foster,  
Nothing will help so well as the "**Rapid**" machines,  
Which are made in great variety by

**GARDNERS' of GLO'STER.**

*New Year 1913.*

**GARDNERS' :**

SIFTERS for everything SIFT-ABLE

MIXERS for everything MIX-ABLE

GRINDERS for everything GRIND-ABLE

**Wm. Gardner  
& Sons (Gloucester)  
Limited,**

Powder-Sifting &  
Mixing-Machine  
Specialists,

**Engineers,  
Gloucester.**

Tel. No. 117.

Cables :

"Gardner Gloucester."



*New Year 1913.*

How to ensure  
Profit & Prosperity  
in the New Year.

**BUY IN BULK  
STANDARDISED DISINFECTANTS**

(Guaranteed co-efficiencies up to 18·0)

**AND LIQUID SHEEP DIP**

(Approved by Department of Agriculture)

and sell under your  
own name and brand.  
We can supply you  
with any quantity.

**BURT, BOULTON & HAYWOOD**  
(LIMITED)

Head Offices: 64 CANNON ST., LONDON, E.C.

Chemical Works: PRINCE REGENT'S WORKS, SILVERTOWN, LONDON, E.





NEW YEAR 1913

WE WISH ALL OUR FRIENDS HAPPINESS  
AND INCREASED PROSPERITY IN THE NEW YEAR

from

*Oldfield, Pattinson & Co.,*  
MANCHESTER.

OPIUM AND  
PREPARATIONS.  
CONCENTRATED  
WATERS, &c.  
FLUID EXTRACTS.

GALENICAL  
PREPARATIONS.  
SYR. FORMATUM CO.  
THYMOLYPTOL.

"SILVER CHURN"  
DAIRY  
SPECIALITIES.  
BALL ROOM  
FLOOR POLISH.



# CHINAWAYS

"The Syphon with the white spout."



**IDRIS & Co., LTD.**

**LONDON, N.W.**

*Chemists must be careful of their Syphons and the quality  
of their Aerated Waters in order to attain*

***PROSPERITY in the New Year.***

*They are always safe with Idris Syphons and Waters.*

**HEARTIEST GREETINGS TO ALL.**



Just a line to wish all our friends the good  
old wish a Happy and Prosperous New Year.

F. SCHUTZE & Co., Ltd., *Black Bull Works*,  
Caledonian Market, LONDON, N.

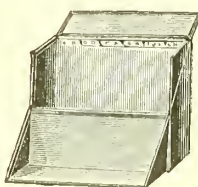


The Season's Greetings  
and  
My Heartiest Wishes  
to  
all Friends for a Record  
Turnover in the Coming  
Year.

**THOMAS SWALES,**  
*Druggists' Sundryman,*  
24 BUTT'S COURT,  
LEEDS.

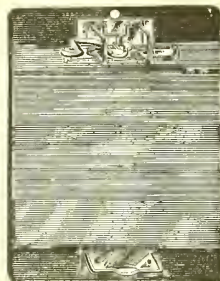
### LETTER FILES and TRANSFER CASES

FOR LETTERS, etc.

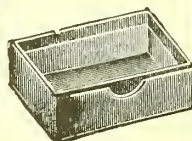
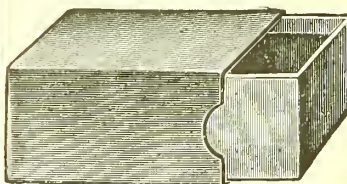


THE BEST AND CHEAPEST  
HOUSE IN THE TRADE.

WRITE FOR LIST.



### BOXES FOR ALL TRADES



PROMPT DELIVERY. SMALL OR LARGE ORDERS RECEIVE  
THE BEST ATTENTION. SEND US YOUR INQUIRIES.

USE OUR CROMPTON'S SELF-LOCKING POSTAL BOX

**EELES WALKER & CO.,** HOCKLEY WORKS,  
(2) **Pitsford Street, BIRMINGHAM.**

Telegrams: "ELSWAL Birmingham." Telephone: Central 1650.

Near the British Museum.

## KINGSLEY HOTEL

HART STREET, BLOOMSBURY SQUARE, LONDON.

Opposite the British Museum.

## THACKERAY HOTEL

GREAT RUSSELL STREET, LONDON.

These well-appointed and commodious TEMPERANCE HOTELS have  
Passenger Lifts, Bath Rooms on every floor, Lounges and spacious  
Dining, Drawing, Writing, Reading, Billiard and Smoking Rooms.

Perfect Sanitation. Fireproof Floors. Telephones. Night Porters.

Bedroom, Attendance, and Table d'Hôte Breakfast, single,  
from 5/6 to 7/6 Table d'Hôte Dinner, six courses, 3/-.  
Full Tariff and Testimonials on application.

TELEGRAPHIC ADDRESSES: Kingsley Hotel, "Bookcraft London." Thackeray Hotel, "Thackeray London."

## NOTICE.

## MILK EMULSION.

THE name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered, people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only, Wholesale, by—

**F. H. FAULDING & CO.**

54 Great Tower Street, London, E.C.  
54 King William Street, Adelaide, South Australia.  
341-3 Murray Street, Perth, Western Australia.  
16 O'Connell Street, Sydney, New South Wales.



To Students Past and Present of  
The  
**Westminster College of Pharmacy**

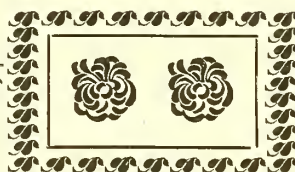
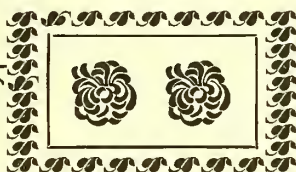
Mr. G. S. V. Wills sends

**H**earty Good Wishes for a  
Happy and  
Prosperous New Year.

The next Course will commence on January 7th, 1913

402 Clapham Road, London, S.W.

Tel. No. 1728 Brighton.



**THE  
LONDON COLLEGE OF PHARMACY**

With which is incorporated the South London School of Pharmacy  
(founded by Dr. Muter in 1868).

Principals: { HENRY WOOTTON, B.Sc. (Lond.)  
ARTHUR KIRKLAND, Ph.C.

MINOR.—Next Complete Course of Lectures, Classes and Practical Work begins January 6th. Fee to April Examination 9½ guineas.

MAJOR.—Next Course begins January 6th. Fee to April Examination 6½ guineas.

EVENING CLASSES (MINOR and MAJOR). Fee from 1 guinea per term of three months. Students can join at any time.

The number of Students who have passed the Pharmaceutical Examinations from the London College, since its establishment, exceeds that from any other school.

SEPTEMBER EXAMINATION, 1912.—14 London College Students passed, comprising nearly one-third of the total pass for England and Wales.

For Prospectus, &c., apply to The Secretary, LONDON COLLEGE OF CHEMISTRY AND PHARMACY, 361 Clapham Road, London, S.W.

**THE  
BATH & WEST OF ENGLAND**

**COLLEGE of Chemistry & Pharmacy.**

DAVID J. WILLIAMS, F.C.S., Ph.C., Silver Medallist, Principal.

**DAY CLASSES.**

FOR MINOR, MAJOR, APOTH. HALL,  
**NEW TERM—JANUARY 6th,**

UNSURPASSED RESULTS.

Average for **80%** Five Years

**100%** on Five occasions.

**PREPARATORY POSTAL TUITION A SPECIALITY.**

Distinctions:—1908, Fairchild Prize, Mr. B. Hall; 1909, Fairchild Schol., Mr. B. Hall; 1910, Fairchild Prize, Mr. C. Hughes; 1911, Mr. W. Cooper; 1912, Mr. W. J. Davis, Fairchild Scholarship (bracketed 1st).

Ten per cent. reduction in College fees to Correspondence Students on entrance.

For Terms and Prospectus apply The SECRETARY.

Bath & West of England College of Chemistry & Pharmacy,  
6 Cleveland Place East, BATH.

**BIRMINGHAM & MIDLAND**

**COLLEGE OF CHEMISTRY,  
PHARMACY AND BOTANY.**

45 NEWHALL STREET, BIRMINGHAM.

Principal—G. L. SCOTT, Pharmaceutical Chemist.

FULL-TIME, AFTERNOON AND EVENING CLASSES.

**NEXT TERM BEGINS ON JAN. 7, 1913.**

**THOROUGH UP-TO-DATE & RAPID TUITION.**

Full Particulars on Application.

"Oni heuir ni fedir."

**THE LIVERPOOL SCHOOL OF PHARMACY**

(Recommended by Liverpool Chemists' Association).

18 COLQUITT STREET, LIVERPOOL.

Principal—H. HUMPHREYS JONES, Ph.C., F.C.S.

**NEXT TERM, MONDAY, JANUARY 6.**

A few benches still remain. Write and book at once.

The Wednesday Class (part time) resumes on January 8th.

The Principal speaks highly of the value of this class from his experience as a Student and Teacher. It is invaluable as a preliminary to the full-time class.

**NOTE.**—Wednesday is the day fixed in Liverpool by Chemists for closing under the Shops Act.

The Tuesday class for Advanced Students will resume on January 7th.

**Personal Attention** is the fundamental principle of the School's Organisation. Students are guided and taught personally by the Principal.

Write for Syllabus, which contains Volumetric Equations, Per Cent. Calculations, Thermometric Equivalents, &c., post free.



## Worshipful Company



## of Spectacle- Makers.

Examinations in General Optics and Sight Testing are held twice yearly, May and November, for success at which Diplomas are granted. The next Examination will be held at the St. Bride's Institute, Ludgate Hill, E.C., and at the City of London School, Victoria Embankment, E.C., early in May next. Full Syllabus, Regulations and Entry Form may be had on application to the Clerk of the Company. Prizes are awarded to candidates who obtain a high percentage of marks on the recommendation of the Examiners.

Col. T. DAVIES SEWELL, F.R.A.S.,  
11 Temple House, Temple Avenue, E.C.

## THE INSTITUTE OF OPTICS.

Instruction for the Spectacle-maker Company's Examinations is given under the supervision of the official instructor of the Guild.

For particulars address : Mr. LIONEL LAURANCE,

(Corner of Tallis St.) 14, 15 & 16 Temple House, Temple Avenue, LONDON, E.C.



### EVERYTHING YOU REQUIRE!

*— Furniture, Instruments, —  
Materials, Tools, and Sundries.*

HIGHEST QUALITY. LOWEST PRICE.

30 FINSBURY PAVEMENT, LONDON, E.C.

**DENTAL**  
CATALOGUE  
POST FREE.

## British Optical Institute, Limited,

MOUNT EDGCUMBE GARDENS, 345 CLAPHAM ROAD, S.W.

### OPTICAL TUITION.

PREPARATION for all OPTICAL EXAMINATIONS  
by Postal Courses or Private Coaching.

THOROUGH, PRACTICAL INSTRUCTION IN

Subjective and Objective Methods of Sight Testing  
IN CLASSES, OR PRIVATELY BY ARRANGEMENT.

### LABORATORY AND EXPERIMENTAL WORK.

For further information and fully detailed prospectus apply to the

Principal - - Dr. MAX COQUE, B.Sc.

TELEPHONE: BRIXTON 679

### OPTICAL PRESCRIPTION WORK, WHOLESALE.

SANDRO LOWY,  
88 GOSWELL ROAD,  
LONDON, E.C.



A HAPPY  
NEW YEAR!  
TO MAKE IT  
PROSPEROUS

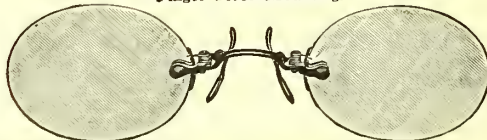
### START A MAIL-ORDER BUSINESS

This can be done in spare time and at small outlay. It brings cash orders, good profits. Success depends upon kind of advertising used. Writing, designing, planning for Mail-Order Business for Chemists and Druggists my speciality. References prove this. Send for Free Booklet.

F. A. DEGEN, } c/o The Chemist and Druggist,  
Yellow Inc. Soc. Advt. Consultants. } 42 CANNON STREET, E.C.

## THE "FIT-LITE"

Finger Piece Mounting.



In Gold Filled Only

HIGHEST QUALITY. :: LOW PRICE.  
Samples on Approval. FITTING SETS SUPPLIED.

ANGLO-AMERICAN OPTICAL CO.,  
47 Hatton Garden, E.C.



# OPTICAL SHOW STANDS

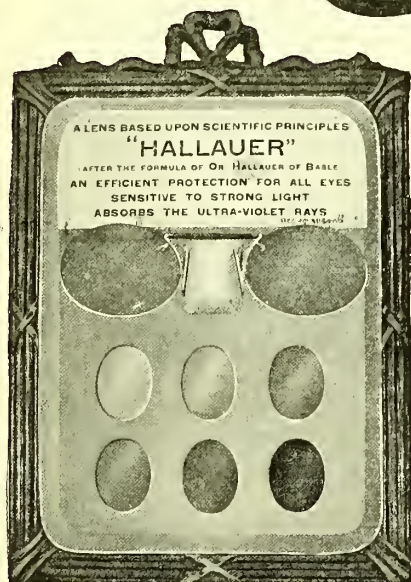
We specialise in these and illustrate below a few of  
**OUR OWN REGISTERED DESIGNS.**

IN LIGHT OR  
 DARK FUMED  
 OAK AS  
 DESIRED.



COVERED  
 VELVET WITH  
 STRUT AT  
 BACK.

No. 5085.



No. 5084.

MAKE AN  
 ARTISTIC  
 AND  
 EFFECTIVE  
 DISPLAY.



No. 5086.

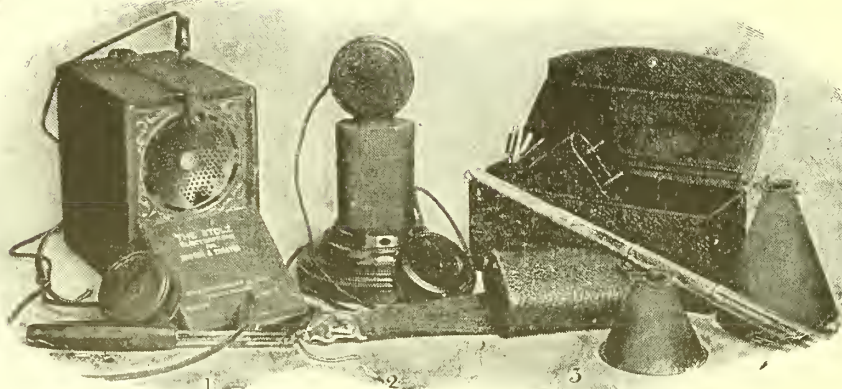
WRITE US FOR PARTICULARS.

**NITSCHÉ & GUNTHER OPTICAL CO., Limited,**  
**66 HATTON GARDEN, LONDON, E.C.**

Telegraphic Address: "ENGEOPCO LONDON."



# Deafness



1. Church and Theatre Instrument. 2. Portable Pocket instrument with Stand. 3. Sundry Accessories.

## The Stolz Electrophone

**T**HE Stolz Electrophone is a scientific instrument for the alleviation of deafness and the abolition of head noises. It is small, unobtrusive, light, portable and more efficacious than anything of the kind ever invented. In principle it is a magnifier of sound waves, and numerous instances are on record of people who have been deaf for 20, 30 and even 40 years being able to hear clearly and well through the medium of this remarkable instrument. The Stolz Electrophone is sold entirely on its merits. There is no reason why anyone suffering from any form of deafness should not take this favourable opportunity of securing prompt and quick relief.



The advantages of the Stolz Electrophone over the old-fashioned ear trumpet are incalculable. No need for shouting, no need for the speaker to approach closely. Every sound can be heard distinctly, each in natural volume and tone. In social intercourse, at opera, play, or concert, at business, everywhere, this wonderful appliance places the wearer on a practical equality with the rest of the world. The Stolz Electrophone will last a lifetime; there is nothing to break. The source of the wonderful power by which all sound waves are amplified and concentrated is electrical—the sounds are actually electrically conducted to the ear. There is no other device in the whole world possessing the power, efficiency and advantage of adjustment possessed by the Stolz Electrophone. Convincing evidence of its merits exists in the numberless testimonies of gratified users.



*Ask for our elaborate and fully descriptive new book, number 30 — we shall be glad to send it. You will be glad to have it.*

AGENTS APPOINTED IN ALL COUNTRIES

:: Special Terms made to Large Buyers. ::

**THE STOLZ ELECTROPHONE CO., LD.,**  
*Head Office : Byron House, 85 Fleet St., London.*



**THE MOST PROFITABLE SIDE LINES.**

**THE 'Aristo' WAIST-COAT POCKET LAMP**  
Finished Gun Metal. Brilliant light. Price 2/-

**ELECTRIC POCKET FLASH LAMPS**  
A well-made attractive line. From 6/- per doz. complete with Refill and Battery.

**THE Dainty WAISTCOAT POCKET LAMP**  
Takes up no more space than a watch. Brilliant light. Covered real leather. Price 1/8 each.

**PORTABLE INSPECTION LAMPS**  
With leather covering and strap handle. Price 4/4.

**SEND NOW FOR TRADE TERMS. WE SUPPLY ADVERTISING MATTER.**

**THE PRESTO.**  
A high-class well-made watch-shaped lamp. Gives brilliant light on pressing knob. 18/- doz.

**ELECTRIC SCARF PINS.**  
Rapid selling novelty. Complete with Cord and Adapter. From 5/6 doz. Immense variety. See our Catalogue.

**ELECTRIC TORCHES**  
from 13/4 dozen.

**THE SAMPSON MASSAGE VIBRATOR**  
in handsome case. Complete with 4 Applicators. Price £1 12 0 net. Complete with batteries.

**POCKET LAMP REFILLS OF BRITISH MANUFACTURE.**  
Most lasting and reliable on the market. From 2/10½ dozen.

**Metal Filament Bulbs.**  
Most brilliant. Price 3/6 dozen. Carbon Bulbs, best quality 2/- dozen.

Write now for the largest Catalogue of Electrical Novelties ever issued. Mention Paper. Hundreds of money-making lines.

**WARD & GOLDSTONE,**  
Estd. 1892. Contractors to H.M. Government.  
Springfield Lane, SALFORD, MANCHESTER  
Telephones: 7083, 4-5 and 6 Central. Telegrams: "MULTUM MANCHESTER."

## LENS MEASURE

FOR MEASURING  
Spherical and Cylindrical Lenses.

Price **17/6** each post free.

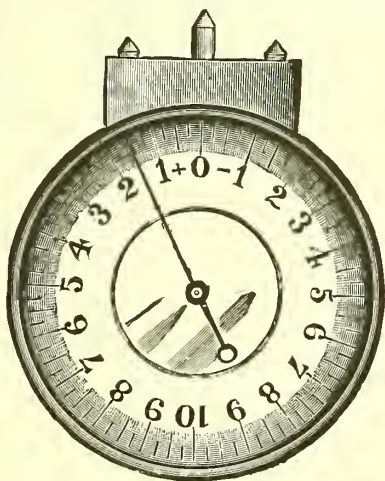


Illustration shows instrument exact size.

Manufactured and Sold by—

**BOTWRIGHT & GREY,**

Spectacle and Eyeglass Makers,

13 & 14 Spencer Street, Clerkenwell,

LONDON, E.C.

## A NEW PROCESS?

### WHOLESALE

Have your  
**HEADINGS, INVOICES**  
and **CIRCULARS** Printed  
by our Rotograph Process.  
**FINEST RESULT,**  
**CHEAPEST METHOD.**

**CLYDE PRESS,**  
DUNBAR STREET, WEST NORWOOD.

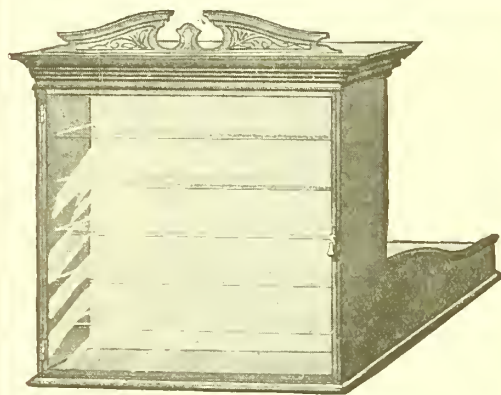
Send for Specimens.

**LABELS AT CUT PRICES.**

All Goods Carriage Paid.



# D. GRANT SHOP-FITTER & PATENTEE



## COMBINATION DESK AND SHOWCASE

Solid Polished Mahogany, plate glass, mirror back, five adjustable shelves. 24 in. wide to 27 in., £3. 30 in. wide, £3 5s. od.

## COUNTER CASES FOR SALE

Best quality, only 6 months in use at Glasgow Exhibition. Best British Plate Glass. Solid Polished Mahogany, plate mirror folding doors, spring catches. All repolished equal to new, 10s. 6d. per foot run, packed and put on rail. Also one dispensing case, particulars on application.

Set of first-class Chemist's drawers with labels and knobs complete. Modern, 2s. 10d. per drawer. Also five cigarette cases, 15s. each.

**ST. JAMES' PLACE, EDINBURGH.**

## Chemists' Shop Fittings

Window Enclosures, Plate Glass Shelves, Mirrors, Silent Salesman, Glass Showcases (every description), Dispensing Screens, Drug Fittings, Wall-cases, Perfume Cases, Desks, Plate Glass Front Serving Counters, Counter Drawers, Shop Rounds,

**AT ABSOLUTELY LOWEST PRICES.**

You Can't do Better. 30 Years Fitting Pharmacies.

**GEORGE COOK, THE CHEMISTS' WORKING SHOPFITTER,**

30 BUTTESLAND STREET, EAST ROAD, N.

Sketches sent free.

Near Old Street Tube Station.

Testimonials from every customer.

## CITY OF LONDON COLLEGE,

WHITE STREET and ROPENAKER STREET, MOORFIELDS, E.C.

LENT TERM Commences JANUARY 6th.

CLASSES and LABORATORY WORK in CHEMISTRY, BOTANY, and GEOLOGY. Special preparation for the Examinations of the Pharmaceutical Society, the Conjoint Board. Complete courses for University of London Examinations. Full particulars gratis on application to DAVID SAVAGE, Secretary.

## "AMAMI" NAIL POLISHING STONES

ABSOLUTELY THE BEST.  
4/- doz.

Wholesale from Maw's, Evans, & Co.

Also all requisites for Finger toilet.

PRICHARD & CONSTANCE, Ltd., Manufacturing Perfumers, etc.

Telephone: 11716 Central.

71 NEWMAN STREET, LONDON, ENG.

**A Firm with 35 Years' Reputation.**

## THREE ESSENTIALS:

**Up-to-date Methods  
Quick Despatch  
Reasonable Prices**

*You secure ALL the above  
in placing your orders with*

**HARRISON & WAIDE**

*THE Chemists' Printers,*

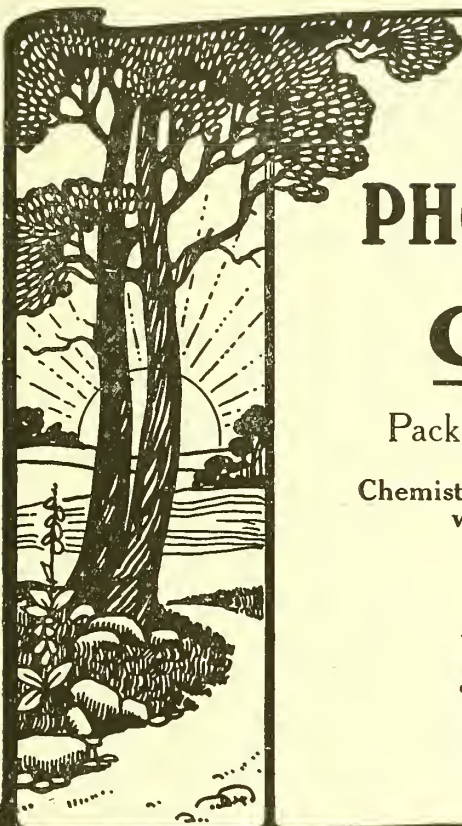
**KIRKSTALL ROAD, LEEDS.**

WE SEND

Set of Samples POST FREE on Receipt of 6d. Stamps.

Samples sent to Colonies on receipt of Postal Order for 10/6, which is credited on a £5 order.





JOHNSON'S  
**PHOTO CHEMICALS**  
 . . FOR . .  
**CHEMISTS.**



Packets, Cartridges, Tablets, and Solutions.

Chemists and Dealers throughout the world supplied  
 with complete photo chemical stocks.

*Illustrated Price Lists post free.*

— MANUFACTURERS: —

**JOHNSON & SONS,**  
 Manufacturing Chemists, Limited,  
 Cross Street, Finsbury, London.

ALL KINDS DECORATED AND PLAIN

# TINS

FOR MANUFACTURING CHEMISTS.

*Specialities:*

**HEALTH SALT TINS**

Vaseline, Ointment,  
 Camphor Ice Boxes,  
 Shaving Stick Cases,

**LIQUID METAL POLISH TINS.**

Up-to-date designs. High-class printing will  
 increase your trade. Apply to—

The  
**Liverpool Tin Canister Co.**  
 Ltd.

**WALTON, LIVERPOOL.**

London Office: 7 Wilson St., E.C. Telephone: London Wall 7783.

## Silk Ribbons

**SILK FLOSS**

**SILK CORDS**

*Specially selected for the*

*Perfumery Trade*

**MERCERISED COTTON CORDS**

(Soother Cords)

**ELASTIC CORDS**

(for fixing Carded Goods)

*Large and varied stock always on hand.*

*Special qualities or colours made to order.*

Samples and Prices from

**JOHN MACLENNAN & CO.**

30 NEWGATE STREET, LONDON, E.C.  
 and at GLASGOW.



# The Chemist's Compact Library.

MONEY-MAKING AND MONEY-SAVING BOOKS.

EVERY BOOK BY AN EXPERT.

## THE ART OF DISPENSING.

A treatise on the Methods and Processes involved in Compounding Medical Prescriptions, with Dictionaries of Incompatibles and New Remedies, and numerous Memoranda for Dispensers and Prescribers. First Edition 1838; (Ninth Edition), by PETER MACEWAN, F.C.S., Pharmaceutical Chemist, Editor of the "Chemist and Druggist."

Mr. Harold Wyatt, a Member of the Pharmaceutical Society's Board of Examiners for England and Wales, in criticising the Eighth Edition, says:

"After a careful examination of the contents of this revised and enlarged edition from cover to cover, one can only wonder at the mass of highly useful and specialised information the book holds in its 542 pages. To one who has handled the earlier editions from the book's genesis in the C. & D. Diary of 1830, the present volume appears not only fully to maintain the reputation earned by the former editions, but to stand as a monument exemplifying the progress and complexity of modern pharmacy. The essentially practical character of the book is revealed in every paragraph. Taking the volume as a whole it outstrips its predecessors in diversity of contents; it is thoroughly up-to-date."

Price 6s. net, by post 6s. 4d.

## PHARMACEUTICAL FORMULAS.

Being "The Chemist and Druggist's" book of useful recipes for the drug trade. By PETER MACEWAN, Phar. Chem., F.C.S. The first edition of this popular book was published early in 1898 and extended to 662 pages. The present (eighth edition) contains over 1,000 pages. Besides being a formulae the book is a treatise on many of the formulæ subjects, and is regarded by chemists and manufacturers as most valuable. It comprises chapters on toilet preparations and specialties, preparations for the hair, dentifrices, perfumes, household and culinary requisites, beverages, antiseptics and disinfectants, horticultural and agricultural preparations, inks, varnishes, confectionery, photographic chemicals and preparations, galenic and medicinal compounds, bacteriological and microscopic reagents, and a Supplementary Chapter containing, besides hundreds of new formulæ, a Synoptical Reference List to those printed in the "British Pharmaceutical Codex."

Price 10s., by post 10s. 6d.

## VETERINARY COUNTER PRACTICE.

An indispensable book for chemists, whether urban or rural. It deals with ailments of horses, cattle, sheep, pigs, dogs, and poultry. The chemist's requirements in this regard are solely kept in view, and the book is a real money-maker to those who use it. The new edition (sixth), like its predecessors, is by an experienced M.R.C.V.S., and includes much new matter. Contains over 400 pages.

Price 4s., by post 4s. 4d.

## DISEASES AND REMEDIES.

Chemists and Druggists need to know something about diseases and their treatment, and this book fills the gap between books of domestic medicine and standard works for medical practitioners. A new edition (the fourth) is now ready. It has been brought up to date and enlarged to 225 pages.

Price 3s., by post 3s. 3d.

## THE CHEMIST'S DICTIONARY OF MEDICAL TERMS AND TREATMENT.

This book measures 5½ inches by 3½ inches, and contains over 280 printed pages. There is no medical dictionary so compact which gives so much up-to-date information. It goes straight to the point—which is what chemists most need when they have to answer medical questions asked by customers.

Price 2s. 6d., by post 2s. 8d.

## THE CHEMIST OPTICIAN.

This book is a survey of the theory and practice of visual optics, especially with reference to sight-testing and spectacle fitting. It gives exact details of how to carry on this lucrative side-line, and, being written by a pharmacist-optician expressly for retail chemists, has the proper appreciation of the needs of those in the drug trade. Features of the book are the number of illustrations and the practical points on sight-testing and spectacle adapting.

Price 4s., by post 4s. 3d.

## GUIDE TO PRELIMINARY EXAMINATIONS.

This book, written by WILLIAM DODDS, an experienced teacher, deals with English, Latin, Arithmetic, Algebra, Euclid, French, and German as required in the principal examinations recognised by chemical, medical, and pharmaceutical bodies. Examination papers are quoted and worked out, and the 1905-6 regulations given.

Price 2s. 6d., by post 2s. 9d. New Edition 1912.

## ELEMENTARY DISPENSING PRACTICE.

By the late JOSEPH INCE, Phar. Chem., F.L.S., one of the 19th century's leading exponents of this subject. All apprentices and assistants have not the daily opportunity of working at a dispensing counter, with the result that many do not get adequate systematic training in the subject. This little book supplies this want. It gives graduated instruction in all manipulative requirements.

Price 3s. 6d., by post 3s. 9d.

## MANUAL OF PHARMACEUTICAL TESTING.

The late BARNARD S. PROCTOR, Phar. Chem., F.I.C., was a thorough believer in chemists and assistants testing the chemicals and drugs they handle, and he devised many "short cuts." This book, written by him and revised to suite the British Pharmacopoeia, 1898, contains his instructions for applying the B.P. tests with the materials and appliances which every chemist has at hand.

Price 2s. 6d., by post 2s. 9d.

## PRACTICAL METHODS OF URINE ANALYSIS.

This department of chemistry is one which those behind the drug counter can profitably cultivate. The object of this book is to give chemists exactly the information they want on the subject. The book is written by a working pharmacist who is expert in the subject, and has been revised by a M.B., Lond.

Price 2s. 6d., by post 2s. 9d.

## OPENING A PHARMACY.

This compact book deals with capital required, shop-fitting, order for drugs, the dispensing department, the chemist's books and how to keep them, how to take a lease, assistants, trade mark and copyright, the sale of poisons, stamped medicines, methylated spirit, advertising, and income tax.

Price 2s. 6d., by post 2s. 9d.

## THE CHEMIST'S DICTIONARY OF SYNONYMS AND TRADE NAMES.

Uniform with the "Chemist's Dictionary." Contains 220 pages; just published.

Price 2s. 6d., by post 2s. 8d.

May be obtained at the published prices from any Wholesale Drug or Sundries House, or from

**"THE CHEMIST AND DRUGGIST," 42 Cannon Street, London, E.C.**

Branch Offices:—MELBOURNE, SYDNEY, and ADELAIDE, AUSTRALIA.

U.S.A.:—Messrs. McKesson & Robbins. CANADA:—National Drug and Chemical Co., Ltd.  
SOUTH AFRICA:—Messrs. Lennon, Limited.



# 1913.

**B**USH, HENRY W., & CO., LTD.,  
**U**NTO ALL THEIR CLIENTS AT HOME & ABROAD,  
**S**END HEARTIEST GOOD WISHES FOR A  
**H**APPY AND PROSPEROUS NEW YEAR WITH  
**L**ONG LIFE AND PERFECT HEALTH.  
**O**NE THING NECESSARY TO ATTAIN THIS,  
**N**EVER FORGET THAT  
**D**UTY TO ONE'S OWN INTERESTS DEMANDS  
**O**RDERS FOR SUNDRIES SHOULD BE PLACED  
**N**OW AND THROUGHOUT THE YEAR WITH

**HENRY W. BUSH & CO., LTD.,**

*Makers of Measures, Syringes, Trusses,  
Clins, Bandages, and all Sundries,*

Rembrandt Works, Commercial Street, LONDON.



**BEFORE PLACING YOUR  
ORDERS FOR**

# PETRO JELLY.

(PETROLATUMS. B.P. & COMMERCIAL QUALITIES. White, Cream & Yellow.)

*Send Your Enquiries to*

**SCHLIEMANN'S OIL & CERESINE CO., LTD.,**

**23 LEADENHALL STREET,**

TELEPHONE: 2911 CENTRAL.  
TELEGRAMS: MANNSCHLIE.

**LONDON, E.C. 11**

## A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTII, B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.  
London Agent: JAMES STIRTON, 23 ST. DUNSTON'S HILL, E.C.

(Wholesale only.)

**GENUINE EMERY, EMERY CLOTH, AND BLACK LEAD.**

**JOHN OAKEY & SONS, LIMITED.**

MANUFACTURERS OF

Glass and Flint Paper, Emery and Glass Cloth, Emery, Black Lead, Emery Wheels, Pumice  
Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture  
Polish, Knife Boards, Brunswick and Berlin Black, etc.

**OAKEY'S WELLINGTON KNIFE POLISH.**

Prepared expressly for Oakey's and other Knife Polishes, Buff Leather Boards, and all the Patent Knife Cleaning Machines.  
Sold in Canisters with perforated Tops to prevent waste, at 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

**OAKEY'S NON-MERCURIAL SILVERSMITH'S SOAP.**

For cleaning and Polishing Silver, Plate Glass, Marble, &c. Tablets, 6d. each.

**OAKEY'S "POLYBRILLIANT" (REGISTERED).**

A Magic Pomade for Cleaning Brass, Copper, Tin, Pewter, Britannia Metal, &c. Never becomes dry and hard like other Metal Pastes.  
Tins, 1d., 2d., 3d., and 6d. each.

**WELLINGTON BLACK LEAD.**

In 1d., 2d., and 4d. Blocks, and 1s. Boxes.

**WELLINGTON EMERY & BLACK LEAD MILLS, Westminster Bridge Rd., London, S.E.**

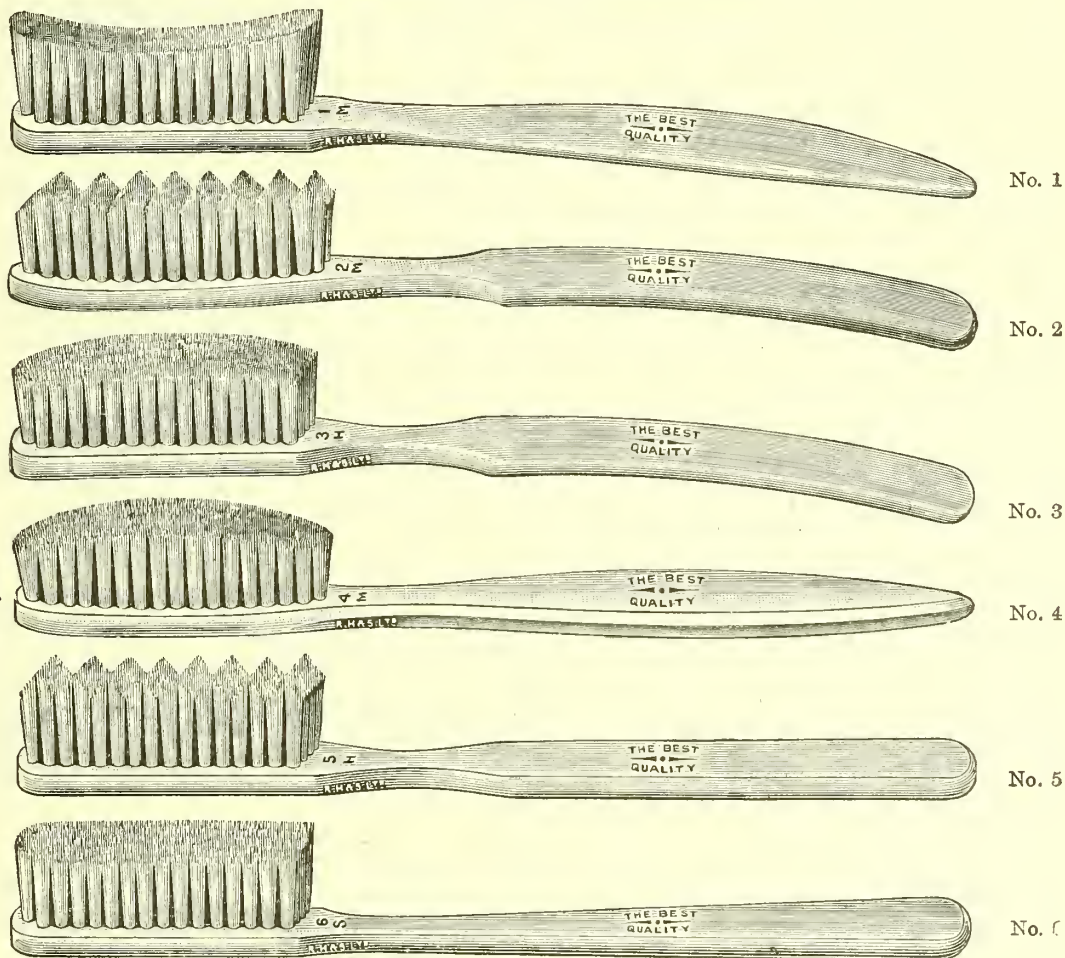
Highest Award and Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.



# HOVENDEN'S TOOTH BRUSHES. BEST QUALITY.

Waxed Backs, Wire Drawn, Highly Finished. Twelve Patterns in each box.

The following are a few illustrations:—



**6/- per dozen; or 69/- per gross.**

Customers can have name and address STAMPED FREE on orders of 1 gross and upwards. Write for sample dozen of these excellent Tooth Brushes.

## THE HYGIENIC TOOTH BRUSH.

**BEST WAXED AND ASSORTED PATTERNS. 6/- per dozen; or 69/- per gross.**

Subject to 2½% Cash Discount.

A copy of our Monthly List will be forwarded on application.

**R. HOVENDEN & SONS, Ltd.,**  
 29, 30, 31, 32, & 33 BERNERS ST., OXFORD ST., W. Tel. No.: 3021 Gerrard (2 lines). **LONDON.**  
 And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. Tel. No.: 6260 London Wall (2 lines).





# Petroleum Jellies

(B.P. and Technical Qualities)

White, Cream, Yellow, Orange,  
Pale Yellow, &c.

# White Oils

(B.P. and Technical Qualities)

White and half-white Oils,  
odourless, tasteless, bloomless.

# Coloured Oils:

Light and Dark Yellow,  
Light and Dark Green, Red, &c., &c.

*The Stern Sonneborn Oil Co., Ltd.*

Tel. Add.: "Centumvir" London.  
Glasgow.

**WHOLESALE  
ONLY.**

Royal London House, Finsbury Square, London, E.C.  
108 Hope Street, Glasgow.

## Press Cuttings

Everything and anything that is  
printed in any newspaper anywhere  
can be supplied by

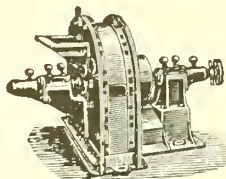
## The Central News,

Press Cutting Department,  
5 New Bridge St., London, E.C.

The Central News Agency has been established  
over forty years.

## GRINDERS

*For All Purposes.*



Write for Lists.

**THE HARDY  
PATENT PICK CO. Ltd.**  
SHEFFIELD, ENG.

# CHLORIDE OF LIME

In Packets,  $\frac{1}{2}$  lb.,  $\frac{1}{4}$  lb., and 1 lb.; also in Tins,  $\frac{1}{2}$  lb., and upwards.



**THE UNITED ALKALI CO.**  
LIMITED,

TRADE MARK. Greenbank Works, ST. HELENS, LANCs.

## TIDMAN'S SEA SALT.

**ON P.A.T.A. LIST.**  
**INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.**  
*Orders of Twenty Shillings in value and upwards Carriage Paid. Cases Free.*

	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
1d. Packets.	1/- per box	12in box 11d.	per box, 8/6 pr. grs.
2d. "	2/- "	" "	16/9 "
1d. linen Bags.	1/- "	" "	8/6 "
2d. "	1/- "	6 in box 11d.	" 16/9 "
Boxes, about 1½ lbs	4d.	3½d.	" 2/10 pr. doz.
" "	3½d.	8d.	" 5/8 "
" "	7 " 1/2	1/-	" 10/- "
" "	14 " 2/-	1/10	" 18/3 "

**SINGLE BAGS** of following 3 sizes sent **CARRIAGE PAID** to any place in the United Kingdom, so that there is no Stock to hold.

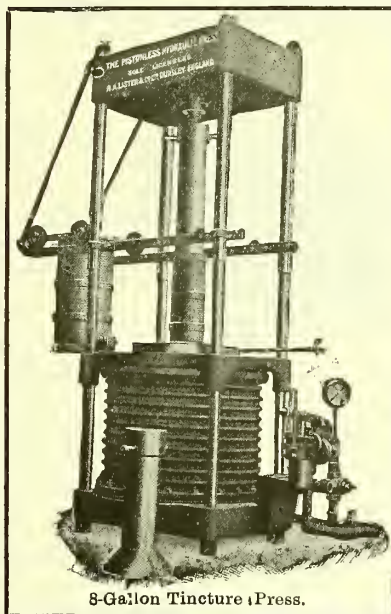
	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
28-lb. Bags (or Boxes)	3/- each	3/-	2/6 each
½-cwt. Bags	5/6 "	5/6	4/7 "
1-cwt. Bags	10/- "	10/-	8/4 "

Cash Discount, 2½% on orders of £1 and upwards.

**TIDMAN & SON, LTD., WAPPING, LONDON, E.**



# THE PISTONLESS HYDRAULIC PRESS



8-Gallon Tincture Press.

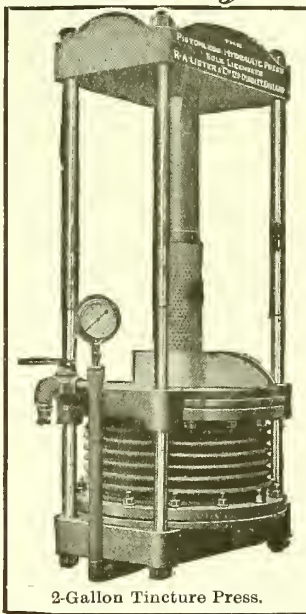
FOR EXTRACTING ESSENCES, &c.,  
BY A METHOD FAR CHEAPER  
THAN DISTILLATION.

**THIS PRESS WORKS  
DIRECT FROM THE  
WATER MAIN.**

Requires No Pumps; No  
special foundations.  
No Ram, Glands, or  
Cup Leathers.

**Cheap to Buy. Cheap to Run.  
Cheap to Maintain.  
Economy with Efficiency.**

Recommended for recovering Spirits from spent marcs.



2-Gallon Tincture Press.

**R. A. LISTER & CO., LTD. (PRESS) DEPT., DURSLEY, GLOS.**

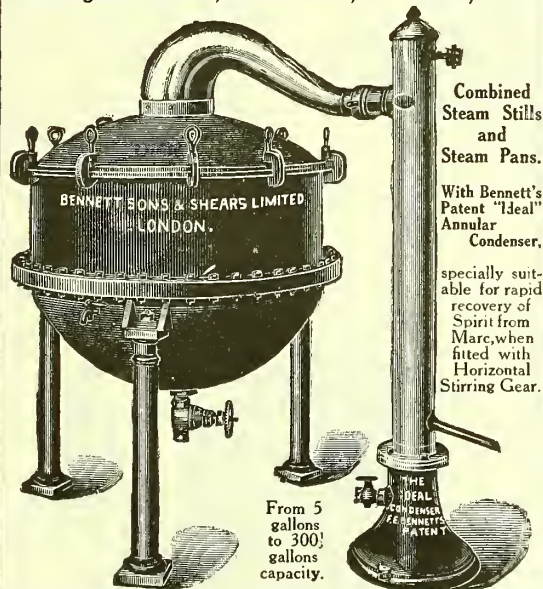
Telegraphic Address:—  
"CUPRITE LONDON."

Telephone:—  
790 HOLBOR N.

**BENNETT, SONS & SHEARS,**  
LIMITED,

*Engineers and Coppersmiths,*

Farrington Works, Shoe Lane, LONDON, E.C.



Combined  
Steam Stills  
and  
Steam Pans.

With Bennett's  
Patent "Ideal"  
Annular  
Condenser.

specially suit-  
able for rapid  
recovery of  
Spirit from  
Marc, when  
fitted with  
Horizontal  
Stirring Gear.

From 5  
gallons  
to 300  
gallons  
capacity.



## THE 'EUREKA' TABLET MACHINE

Has been proved to be **THE BEST.**

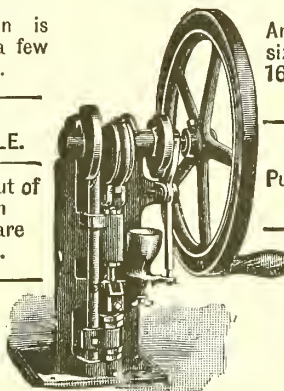
**USED EXCLUSIVELY IN ALL THE LEADING  
PHARMACIES, DISPENSARIES, HOSPITALS, etc.**

Its operation is  
mastered in a few  
minutes.

IT IS SO  
SIMPLE.

Cannot get out of  
order with  
ordinary care  
exercised.

**Price**  
**£6 nett.**  
Carr. Paid  
British Isles.



An output of any  
size Tablet (up to  
16 grs.) of 100 per  
minute.

Two sizes of  
Punches with each  
Machine.

Tablets made  
on the  
'EUREKA'  
cannot  
be excelled.

**THE MOST EFFICIENT HAND MACHINE.**

Complete Catalogue and Lists  
forwarded on receipt of P.C.

Sole Agents  
for **F. J. STOKES MACHINE CO.,**  
**THOMPSON & CAPPER, LTD.,**

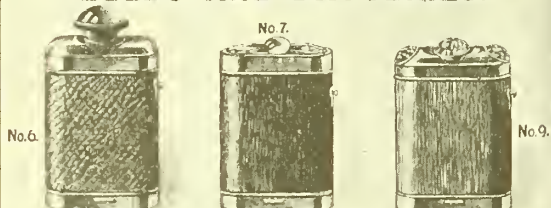
Manufacturing Chemists,

**MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL.**

Tel. No. 2038 ROYAL.

Telegram: 'SANITAS' LIVERPOOL.  
Code: 5th EDITION A B C.

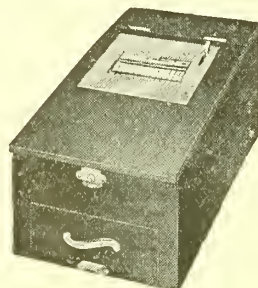


**ELECTRIC POCKET LAMPS.****BULBS AND BATTERIES.****NEW CATALOGUE  
NOW READY.**

**MILLARD BROTHERS, LTD.,**  
123, HOUNDSDITCH, LONDON, E.C.

# National Autographic Tills.

This Style

**30/-**

This Style

**30/-**

1 10 inches wide, 19 inches deep, and 8 1/2 inches high. 1/2

The writing space on this Till is 4 1/2 inches wide, and is ruled for four classes of transactions. Cash, Received on Acct., Charge and Paid Out.

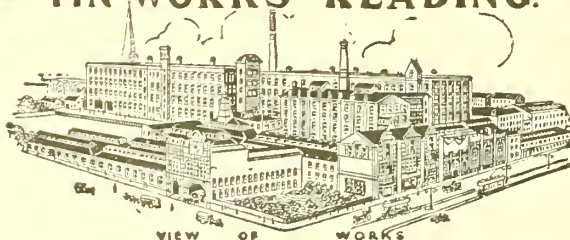
Write for our coloured illustrated  
Booklet No. 27 on Autographic Tills.

The National Cash Register Co., Ltd.  
225 Tottenham Court Road, London, W.  
Telephone 7155 City (4 lines).

# HUNTLEY, BOORNE & STEVENS LTD.

**TIN WORKS · READING.**

**COLOR  
PRINTERS  
ON TIN**



VIEW OF WORKS

MAKERS OF HIGH-CLASS  
DECORATED & PLAIN TIN BOXES  
& SPECIALITIES FOR CHEMISTS

QUOTATIONS TO SAMPLES  
OR DESCRIPTIONS

CORRESPONDENCE INVITED.

TELEGRAMS "HUNTLEY, BOORNE & STEVENS"  
NATIONAL TELEPHONE NO.

**ARE YOUR TRAVELLERS MODERNLY EQUIPPED ?**

**THOMAS KEANE,** ENGLISH COWHIDE  
SAMPLE CASE MAKER.  
64, 66, and 68 Worcester St.,  
BIRMINGHAM.

Manufacturer of the

## — CHEMISTS' — EXCHANGE CASE.

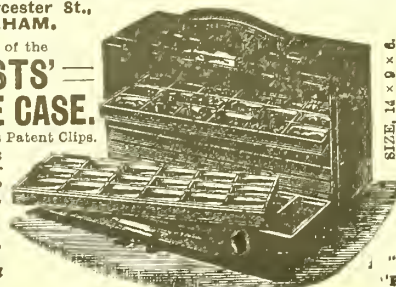
Fitted with Keane's Patent Clips.

Complete with 8  
Trays (with 7 or  
18 Divisions to  
each Tray). 27/6.

FACTORY:

Exchange Works,  
Old Meeting Street,  
Birmingham.

Write for Illustrated  
Price List.



SIZE 14 x 9 x 6.



Telegrams: "ANEKE B'HAM."  
Phone: MID. 1288.



Fitted with KEANE'S  
Pat. Clips. Empty, 21/-



# THE SACCHARIN CORPORATION, LTD.

SOLE MANUFACTURERS AND PATENTEES OF SACCHARIN  
IN THE UNITED KINGDOM  
OFFER

## SACCHARIN

in all strengths, qualities, and packages, and for Export to ALL BRITISH  
COLONIES and ALL OVERSEA COUNTRIES (except U.S.A.).

**Sole Export Agents: R. W. GREEFF & CO.,** Thames House, Queen St. Place, LONDON, E.C.

**BRANCH FACTORIES:—**

**SOUTH AFRICA:** THE SACCHARIN CORPORATION (South Africa), LTD., JOHANNESBURG.  
**AUSTRALIA:** ROCKE TOMPSITT & CO., MELBOURNE.

### NOVOCAIN

The non-irritant Local Anaesthetic.  
For Surgical and Dental Operations.

**Novocain does not contain Cocaine.**

**IN TABLETS AND SOLUTION.**

- |   |                        |
|---|------------------------|
| A. For Infiltration Anaesthesia.                            |                        |
| B. For Anaesthesia of nerve-centres and large nerve trunks. |                        |
| C. For Medullary Anaesthesia—                               |                        |
| Novocain with Mannitol.                                     |                        |
| "    " Strychnine.  |                        |
| "    " Suprarenin.  |                        |
| D. Novocain and Sodium Chloride                             | } For dental Purposes. |
| E. Novocain and Suprarenin                                  |                        |
| F. Novocain only  |                        |

**Contractors to**  
**HIS MAJESTY'S WAR OFFICE**  
**and H.M. INDIA OFFICE.**

*Price Lists and Literature on application to—*

**THE SACCHARIN CORPORATION, LTD.**

10 Arthur Street, London, E.C.

### PERGENOL

A solid compound of Hydrogen Peroxide.

**PERGENOL** is the **non-irritant, surgical and Dental Antiseptic**, and possesses all the advantages of Hydrogen Peroxide presented in a solid, stable and compact form.

**PERGENOL** Powder dissolves easily in water, furnishing a neutral solution of Hydrogen Peroxide and Boric Acid.

**PERGENOL** Tablets for Surgeons and Dentists enable standard solution of Hydrogen Peroxide to be made at a moment's notice.

**PERGENOL** Dentifrice Tablets and Pergenol Mouth Lozenges contain standard quantities of the new antiseptic, cleanse the mouth and whiten the teeth.

The **LANCET** (March 23th, 1911) says:—"This interesting product brings the use of Hydrogen Peroxide of definite strength into easy practical application. . . . The statement is correct that when one part by weight of Pergenol is dissolved in four parts of water a solution of Peroxide of Hydrogen of B.P. strength is obtained. . . . We found that one part of Pergenol dissolved in four parts of water gave 19—20 volumes of oxygen."

**SUPPLIED TO MILITARY HOSPITALS IN INDIA.**

*Price Lists and Literature on application to—*

**THE SACCHARIN CORPORATION, LTD.**

10 Arthur Street, London, E.C.

# THE SACCHARIN CORPORATION, LTD.

10 ARTHUR STREET, LONDON, E.C., ENGLAND.

Telegraphic Address: "SACARINO LONDON."

Telephone: 197 Bank.



## HARVEY'S GREAT REMEDIES FOR THE HORSE WITH THE ADDED REMEDIES (Protected Prices)

### HARVEY'S ACONITE POWDERS,

For Chronic Cough, Broken Wind, Roaring, &c.

### HARVEY'S WORM AND CONDITION POWDERS.

### HARVEY'S WATTS' EMBROCATION, or Curb Bottle.

### HARVEY'S WATTS' RED LOTION,

For Wounds.

### HARVEY'S HAIR RESTORING OINTMENT.

### HARVEY'S EDOS, or Tasteless Purging Powder.

#### THE ADDED REMEDIES:

### HARVEY'S KOPPOS POWDER,

For Lymphangitis or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.

### HARVEY'S THRUSH SPECIFIC.

In Tins, 1/9 and 3/- each.

### HARVEY'S HOOF OINTMENT.

In Tins 3/- and 6/- each.

Also

### HARVEY'S HAIR RESTORER (Human),

A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

**HARVEY & COMPANY, LTD., DUBLIN.**



TRADE MARK

Good Lines for  
Agricultural  
Chemists.



BY ROYAL

## SANTOVIN THE WORLD-FAMOUS SHEEP DRENCH.

AWARDED WORLD'S FAIR GOLD MEDAL AND DIPLOMA, 1907.



Prevents and cures all Parasitic Diseases, Fevers, Scours, Debility, &c.

Once used, always used.

In cans (30 to 40 doses) .. .. 5/-  
3 gal. (90 to 120 doses) .. .. 13/6  
1 1/2' (180 to 240 doses for Lambs) .. 25/-

**WALTON'S ROUP PILLS** cure Roup, Gapes, Colds, Asthma, and other disorders of the Throat, Lungs and Air Passages in Poultry, Game and Pigeons.

In boxes, 6d., 1/-, 2/6, and 5/-.

**WALTON'S TONIC PASTE.**—Unequalled for preventing disease in all classes of Poultry, Game and Pigeons. Immediate cure for Indigestion, Loss of Appetite, Diarrhoea, Crop (relaxed or bound), &c. &c. No similar preparation has such beneficial results on Exhibition Birds and for bad Fledging.

In tins, 6d., 1/-, 2/6, 5/- and 10/-.

Prepared formerly by  
**JOHN WALTON, CROYDON.**

Well advertised. Liberal terms offered and Attractive Advertising Matter supplied.

SOLE PROPRIETORS—

## STEPHEN PETTIFER & SONS

VETERINARY CHEMISTS TO H.M. THE KING,  
**MALMESBURY, WILTS.**

Wholesale from all usual houses.

## Handbills and Cardboard Dummy Tin

Will be sent free and carriage paid immediately on application. KEATING'S POWDER has a ready sale throughout the year, and invariably gives satisfaction to your customer.

**THOS. KEATING,**

50 Union Street, Boro', London, S.E.

## 'RODINE' PAYING AGENCY.



Mr. W. C. Critchley, Longridge,  
Preston, writes —

June 1, 1912.

"The sales of 'Rodine' are extremely numerous. Been unable to keep up. Just run out of 6d. and 1/-; repeat orders. No other selling."

A Welsh Chemist, in a town of 1,800 inhabitants, sold 370 tins during the first seven months of his term of agency.

## RODINE RAT POISON

is now famous in all countries of the world as the Rapid Rat Remover and is a most profitable side-line, yielding nearly 100% protected profit. Sales are strong, as Rodine is extensively advertised in the leading papers. Specially appointed agents are advertised and supplied with attractive literature bearing their names.

Write for particulars of Sole Agency to—

**HARLEY, Manufacturing Chemists, PERTH, SCOTLAND.**

## RATS DOOMED!

**E.X.O. RAT POISON** is beyond doubt the World's Greatest Rat Killer. It is being supplied in tons for Government use, thousands of testimonials world wide. Government testimony with every box. A well-known F.R.C.V.S. and Examiner to R.C.V.S. Great Britain and Ireland writes: "The most effective agent for the destruction of Rats which I have yet experienced." Frederick Pearse, M.D., Health Officer for Calcutta, states: "Extermino has been used in several cases, reports are decidedly satisfactory. I am continuing to use **E.X.O.**" (1911). Prices: 3d., 6d., 1/-, 2/-, 5/- each. Prices to appointed agents (Bonus added): 19, 3/3, 6/6, 13/-, 31/- per dozen Carriage Paid; 10/- minimum. Smaller lots: 2/-, 3/9, 7/6, 15/-, 21/-. Terms of sole agency and our liberal Bonus system on application.

**THE "EXTERMINO" CHEMICAL CO., DUNDEE, N.B.**

(Foreign and Colonial Indents through Export Houses.)



# H. E. STEVENSON & CO.,

122, GREAT SUFFOLK STREET, LONDON, S.E.

Wholesale Druggists and Manufacturing Chemists.

## EMULSION OF COD LIVER OIL.

We claim to be specialists in the manufacture of this beautiful preparation. Our Emulsion is made without Dextrine, Irish Moss, Eggs, &c., by the latest and most powerful machinery, is very palatable, and quite inseparable. Most favourable terms to large buyers, either in bulk or bottled.

## ENGLISH SANDALWOOD OIL

Having advanced fully 75%, has necessitated a revision of prices for "Capsulettes," Santal Perles, &c., but our rates are at present still very moderate, so buyers should not delay their purchases.

## ZINC OXIDE B.P. AND ZINC OXIDE "PURISS."

Our name has been closely associated with Zinc Oxide for more than a quarter of a century, our sales to the Drug Trade all over the World probably exceeding those of any other house.

The B.P. contains 99.5% ZnO., and the "Puriss" 99.8% ZnO., both qualities being made by direct combustion of the metal, and distinguished by extreme whiteness, purity and lightness, while our prices are much below those usually asked.

---

IMPORTERS OF COPAIBA BALSAM, CHAULMOOGRA  
OIL, COD LIVER OIL AND EUCALYPTUS OIL.

**CORRESPONDENCE INVITED FROM COLONIAL FIRMS.**

For very many years a Director of Baiss Brothers & Stevenson, Ltd.



A NEW AND PROFITABLE  
WINTER LINE.

## "MALTOL" TOFFEE.

Prepared with the finest Extract of  
Malt and Cod Liver Oil combined with  
pure English Butter and Cane Sugar.

HANDSOME SHOWCARDS AND  
WINDOW BILLS SUPPLIED.

Packed in 14-lb. Show Jars for Counter or  
Window Display.

WRITE US FOR SAMPLES AND PRICES.

**T. GUEST & Co.,**  
*Medicated Confectioners,*  
**CARRUTHERS St., MANCHESTER.**

## LISTERINE

**The Popular American Antiseptic.**

A non-toxic antiseptic of known and definite power, prepared in a form convenient for immediate use; of ready dilution, slightly, pleasant, and sufficiently powerful for all purposes of asepsis—these are advantages which Listerine embodies.

The success of Listerine is based upon merit, and the best advertisement of Listerine is—Listerine.

### LISTERINE DERMATIC SOAP

Designed to meet the most exacting requirements of a saponaceous detergent for use in the antiseptic treatment of diseases of the skin. No animal fats, and only the best vegetable oils enter into its composition, and of these it contains a surplus, "superfatted." It is a bland, unirritating and remarkably efficient soap.

### LISTERINE TOOTH POWDER

This powder is not intended to supplant Listerine in the daily toilet of the teeth, but is offered in response to the demand for a frictionary dentifrice to be used in conjunction with this well-known and time-tried antiseptic.

Listerine Tooth Powder, like Listerine, will advertise itself by its intrinsic merit.

BRITISH TRADE SUPPLIED BY

MAW, SON & SONS, 7 to 12 Aldersgate St., London, E.C.  
General Agents for Great Britain.

FOR DESCRIPTIVE LITERATURE, ADDRESS—

**LAMBERT PHARMACAL CO., St. Louis, U.S.A.**

## Pleased Customers and Big Profits

*are made by selling the following  
:: :: well-known brands of :: ::*

## CHEWING GUM & CACHOUS

"Adams' Pepsin Tutti-Frutti."

"Spearmint Chewing Gum."

"Beeman's Pepsin Chewing Gum."

"Sen-Sen Cachous."

"Sen-Sen Chewing Gum."

**1d. and 3d. PACKAGES.**

*Illustrated Price List on Application.*

**TUTTI-FRUTTI SEN-SEN CO., Ltd., 56 Newcomen St., London, S.E.**



TRADE  
MARK

# 'DARTRING' BRAND LANOLINE PRODUCTS

Presenting the genuine original Lanoline. Supreme in quality and elegance. Profitable to sell and a pleasure to dispense.

**'DARTRING' Brand—**

„ Lanoline (*Adeps Lanæ Hydros.*)  
in 1 lb. and ½ lb. tins 2/11 per lb.

„ Lanoline Anhydros (*Adeps  
Lanæ*), in 1 lb. tins 3/7 „ „

*Adeps Lanæ Hydros.*, B.J.D. „ „  
10d. „ „

*Adeps Lanæ Anhydros.*  
B.J.D. 1/1 „ „

Note.—The letters B.J.D.  
should be specified if these  
qualities are required.

„ Lanoline, Veterinary, 1 lb. tins 1/1

**'DARTRING'**

(TRADE MARK)

**'DARTRING' Brand—**

„ Lanoline Ointment Base, 1 lb. tins 2/4

„ „ „ „ Anhydros, 1 lb. tins 3/0  
„ „ Toilet, in collapsible tubes, at 5/0 and  
10/0 per dozen.

„ „ „ „ Specimen boxes, 28/0 per gross

„ „ Cold Cream, in 2 oz. pots, 15/0 per dozen

„ „ Pomade, in 2 oz. pots, 15/0 „ „

„ „ Toilet Powder, in metal dredgers 5/0 „ „

„ „ Toilet Soap, in boxes of 3 tablets 5/0 Per

„ „ Ichthyol Soap „ „ „ 6/6 doz.

„ „ Pine Tar Soap „ „ „ 6/6 tabs.

„ „ Shaving Soap, in sticks, 8/6 per dozen

Sole

Licensees:

BURROUGHS WELLCOME &amp; CO., LONDON

NEW YORK

MONTREAL

SYDNEY

CAPE TOWN

MILAN

SHANGHAI

BUENOS AIRES

London Exhibition Room: 54, WIGMORE STREET, W.





# SCHERING'S CHEMICALS

of absolute purity, efficacy and reliability.

Salicylates, Borax, and Boracic Acid, Ether, Tannic and Gallic Acids. Acid Carbolic, Acid Lactic, Acid Pyrogallie, resublimed and crystals, Chloral Hydrate, Chloroform Collodion, Paraldehyde, Bromides, Iodides and Bismuth Salts.

**SCHERING'S modern Therapeutics** in constant and increasing demand.

**ATOPHAN** The new remedy for Gout, Muscular and Articular Rheumatism.

**ARTHIGON** Gonococci Vaccine for the specific treatment of GONORRHOEA COMPLICATIONS.

**HORMONAL** A peristaltic stimulant very efficacious in all cases of chronic and complicated Constipation.

**HEGONON** Occupies according to medical evidence the first place amongst similar remedies for male gonorrhoea.

**MEDINAL** A new and easy soluble hypnotic.

**UROTROPIN** The best and most effective urinary antiseptic.

**VALISAN** Most effective sedative.

**BETA-EUCAIN** The best local anæsthetic identical with cocain in anæsthetic action.

**SUBLAMIN** (MERCURIC SULPHATE ETHYLENE-DIAMINE). Non-Irritant. Non-Corrosive. Substitute for sublimate with greater penetrating power.

SOLE WHOLESALE AGENTS:—A. & M. ZIMMERMANN, 3 Lloyds Avenue, LONDON, E.C.

PETERSEN, Ltd., Cape Town.

Stock held in South Africa by:—C. WOOD & CO., P.O. Box 1344, Cape Town.

LENNON, Ltd., Cape Town.

The *Lancet* describes it as

"Mr. Benger's admirable preparation."

**FOOD FOR INFANTS**



Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

**BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.**

Branch Offices at: 117, Pitt Street, Sydney, Australia; 92, William Street, New York U.S.A.  
Canadian Agents: The National Drug and Chemical Co., Ltd., Montreal and Branches

ON THE P.A.T.A. SHOWCARDS AND HANDBILLS ON APPLICATION

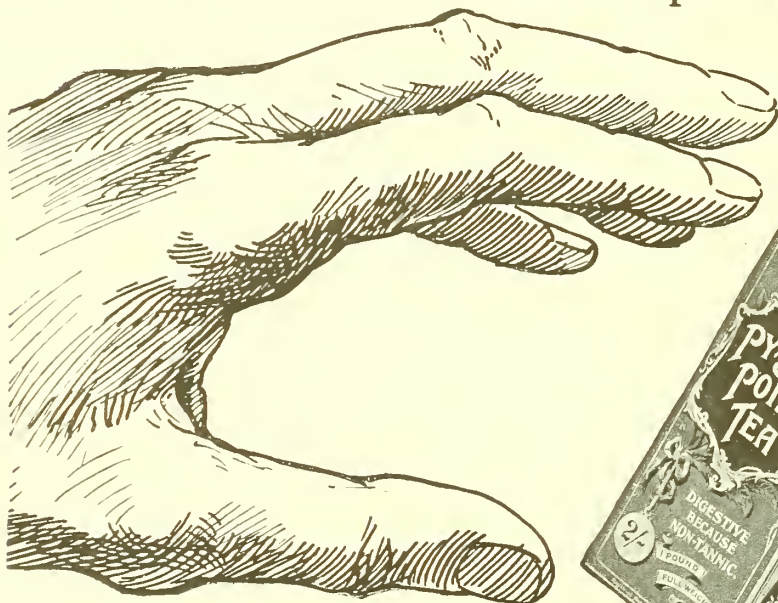
The *British Medical Journal* says:

"Benger's Food has by its excellence established a reputation of its own."

**INVALIDS AND THE AGED.**

45

Seize a profitable opportunity.



Won't you put out your hand?

NOW is the time. Let us send you the Agency details and free sample.



**PROFIT & BUSINESS BUILDER**

Thos. Christy & Co., 4-12 Old Swan Lane, E.C.





**A Weekly Journal of the Chemical and Drug Trades**  
and of  
**British Pharmacists throughout the Empire.**  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

#### Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6d.; Summer or Winter Number, 1s. *Diary*, 8s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12/60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Monatskalendar einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12/60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C. 4**

Telegrams: "Chemicus Cannon London." Telephone 852 Bank (two lines).

**Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.**

### CONTENTS: Vol. LXXXI., No. 26 (Series No. 1718).

[The folios in this List and in the Summary are those at the top of the pages, but references in the Text are to the Index folios at the bottom of the pages.]

	PAGE		PAGE
Bankruptcy Report .....	75	Editorial Articles:	
Birth .....	76	Annus Mirabilis .....	82
Bismuth Tartrate Preps. 79		Empire Trade .....	83
Books, New .....	85	Swiss Chemical Industry .....	84
Business Changes .....	92	French News .....	53
Chemical Society .....	79	German News .....	54
Coffee in Kensington ... 93		India and the East .....	54
Coming Events .....	90	Information Department 80	
Commercial and Produce Notes .....	95	Irish News .....	53
Companies and Company News .....	75	Legal Reports .....	75
Competitions, Postcard 85		Marriages .....	76
Corner for Students .....	50	National Health Insurance .....	86
Correspondence:		Observations and Reflections .....	81
National Insurance Dispensing .....	97	Patent Specifications ... 92	
Backhousia Citrio-dora 97		Personalities .....	76
A Reminiscence .....	97	Poisonings .....	91
"And of all Respectable Chemists" .....	97	Prescription Problem ... 85	
What's Wrong with Pharmacy? .....	98	Retrospect .....	100
Subscribers' Symposium .....	98	Scientific Progress .....	80
Legal Queries .....	99	Scottish News .....	53
Miscellaneous Inquiries 99		Shops Act .....	93
Deaths .....	76	Trade-marks .....	91
English News .....	51	Trade Notes .....	77
Festivities .....	93	Trade Report .....	94
		Westminster Wisdom ... 77	
		Wills .....	77
		Winter Session .....	78

### IDEAL INSET DISTRIBUTION.

There are various ways of distributing circulars and price-lists, but the ideal method eliminates waste. That is why there is such a demand every half-year for space in the

#### Winter Issue

and Summer Number of THE CHEMIST AND DRUGGIST. Advertisers of chemists' merchandise know that they can distribute in these issues 12,000 insets that pay over and over again for their production and distribution. The insets are stitched in to form part of the Issue; they may be produced in any colour, and they are placed only before buyers of the goods to be sold—not scattered broadcast. The Publisher will be glad to have definite instructions for advertising in the Winter Issue which is to be published on

**January 25, 1913.**

## SUMMARY OF THIS ISSUE.

The more notable items only are dealt with.

### Index to Vol. LXXXI.

Between pp. 54 and 75 we print an exhaustive index of our eighty-first volume completed with this issue. Men of light and leading in British pharmacy and the drug-trade realise increasingly that it pays to bind the *C. & D.* with the index for future reference in regard to any pharmaceutical or trade matter.

### National Insurance Act.

A big dose of it for the last days of the year, beginning on p. 86.

"The man of the year" is, we suggest, William James Uglow Woolcock, whose portrait in pensive mood has been sketched by a fellow-pharmacist (p. 88).

The official explanation to medical practitioners of the regulations controlling the dispensing of medicines and the supply of drugs and appliances is given on pp. 88-89.

The reports of chemists' tariff meetings make interesting reading, for they embody arrangements come to, some suggestive modifications of the tariff, and of the dispensing conditions (p. 86).

The British Medical Association's Representatives' meeting resolved by a large majority not to work the Act (p. 89). Six members of Council have resigned, as they consider the decision inconsistent with the Association's first cardinal principles (p. 89). The Government is to go on without the B.M.A. (p. 90); and Mr. Lloyd George will meet the Advisory Committee on January 2 (p. 88).

### Articles and Communications.

"Jay Mack" resumes discussion of the question, "What is Wrong with Pharmacy?" (p. 98).

The chemistry of several important alkaloids is the subject of most of the scientific notes on p. 80.

Dr. Dobbin reports on the last analytical exercise (an alloy), and awards the prizes to Messrs. C. T. Bishop and R. H. Collins. Applications for the next exercise should now be sent in (p. 50).

In these days of patriotic fervour the Empire's trade is a measure of moment. Read the article beginning on p. 83, which deals with purchases of chemists' goods by Australia, India, and South Africa.

"Xrayser II." writes about the *C. & D. Diary, 1913*, and, reflecting upon the growth of the legal obligations of chemists, hopes "future Churchills and Lloyd Georges will temper the wind to the shorn pharmacist" (p. 81).

Liquid preparations of bismuth and digestive preparations (alkaline or acid) are now possible by the use of bismuth tartrate, which is described with working formulæ by Messrs. T. D. Morson and J. Harpham in an article on p. 79.

### News of the Week.

As this section of the *C. & D.* is going to press on Tuesday evening, news received later will be inserted in the Coloured Supplement on Thursday. Space does not enable us to summarise so fully this week as is customary, but we call special attention to the Shops Act decisions on p. 75, respecting a chemists' manager's meal-times, and the sale of medicines during closing hours. The greater number of Chemists' Association meetings are reported on pp. 86-87; others on p. 78.

### Trade and Market Matters.

The chemical, drug, and produce markets are now closing for the Christmas holidays and stocktaking operations. The few alterations include an advance in ammonia sulphate and paraffin wax; copper sulphate, milk-sugar, Mexican sarsaparilla, and insect-flowers are cheaper; sandalwood and clove oils are very firm (p. 95).

### Competition for Crowns.

Insurance dispensing business will not drop into chemists' shops as plums drop from a tree; it will have to be catered for. How should that be done? Write pithily your ideas on this, or any other Insurance dispensing point, on a postcard, and post to the Editor, *C. & D.*, before December 31. We shall award a crown (5s.) for each of the twelve best ideas received and printed (p. 85).

C



## CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

### QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Monday, January 6, and the samples will be posted on the following day.

Students' reports will be received up to Friday, January 17. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the third exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports*.

### Report on December Analytical Exercise.

The alloy distributed to students on November 27 had approximately the following composition:

Ag	...	...	...	...	11
Pb	...	...	...	...	38
Bi	...	...	...	...	12
Zn	...	...	...	...	38
Cu, Fe, Al	...	...	...	...	1

100

Apart from the small quantities of copper, iron, and aluminium, it was substantially free from traces of impurities.

Samples of the alloy were distributed to forty-five students, and twenty-six reports were submitted for examination.

All our correspondents detected zinc. The failures in the detection of the other main constituents were: Silver, 7; lead, 3; bismuth, 9. As regards the metals present only in small quantity, seven students missed copper and twelve missed iron, while only five detected aluminium.

It was to be expected that the majority of our correspondents would be less familiar with the methods of handling an alloy with a view to obtaining a solution, or solutions, suitable for analysis, than they are with the corresponding methods for dealing with qualitative mixtures of the conventional type; nevertheless, a number of very successful attempts were made. In the case of an alloy of entirely unknown composition, it is usually best to begin by heating it with a mixture of nitric acid and water in equal proportions by volume. This mixture attacked the present alloy vigorously when warmed with it, and eventually yielded a perfectly transparent, slightly greenish-blue solution which, however, usually gave a white deposit on cooling. Occasional fragments of the alloy contained small particles of carbonaceous and siliceous matter—derived, most likely, from the crucible in which it was fused—and these remained unattacked: they were reported by only one or two students, and several relatively large portions of the alloy which we examined did not contain any.

There are several advantages which may attend the preparation of a solution by means of the nitric acid of moderate concentration mentioned above (when it is found

to be effective) rather than by using undiluted nitric acid or aqua regia. Thus silver, if present, is retained in solution, while lead does not very readily separate as nitrate. On the other hand, when a much more concentrated nitric acid is employed, lead nitrate tends to separate (being less soluble in the concentrated than in the dilute acid), whereas a more dilute nitric acid does not so readily attack alloys, and there is a risk, besides, of bismuth oxynitrate separating from the solution in considerable quantity. When it is found necessary to employ aqua regia, silver and lead chlorides and bismuth oxychloride may be associated in an insoluble residue. Many of our correspondents got residues, some of which probably consisted mainly of lead nitrate or of bismuth oxynitrate, while most were likely to contain both in varying proportions. Very few students tried to effect solution of these residues by boiling them with dilute nitric acid in larger quantity or with more water, but the majority simply assumed that they consisted of oxidised tin or antimony and proceeded accordingly. Had they boiled them with dilute nitric acid in sufficient quantity they would have found that they dissolved and yielded (when the nitric acid was free from any trace of hydrochloric acid) clear solutions; and had these solutions been treated as described below, a separation of the bismuth from the silver and the greater part of the lead would have been easily effected. Residues having the composition we have indicated were quite certain, as several correspondents found, to become brown when treated with hydrogen sulphide: this, however, could not indicate the presence of tin, as some erroneously concluded that it did.

When dilute hydrochloric acid was added in excess to the still warm original solution in moderately concentrated nitric acid and the mixture was cooled, the silver and most of the lead were precipitated as chlorides, which were easily freed from metallic radicals of the succeeding groups by washing with dilute nitric acid (the latter being used instead of water to ensure the removal of bismuth). The separation of these chlorides and the recognition of silver and lead presented no difficulty. The filtrate was dealt with best by evaporating it to dryness, moistening the residue once or twice with concentrated hydrochloric acid and evaporating to dryness carefully on each occasion to get rid of the greater part of the nitric-acid radical, and then preparing from the final residue a solution to be treated with hydrogen sulphide. The analysis of the hydrogen sulphide precipitate was not difficult and should have been accurate, so far at least as lead and bismuth were concerned, in the cases of those students who read and assimilated our last month's general remarks.

The detection of the small quantities of copper and iron did not give any trouble to those who sought for these metals with moderate care, but the matter was different in the case of the aluminium, which required somewhat delicate handling. The latter statement may surprise one or two students who evidently regarded aluminium as a main constituent; but in the absence of a sufficient quantity—and that a relatively large quantity—of ammonium chloride, it was quite easy, on the addition of ammonia, not in excess, to the boiled out and oxidised hydrogen sulphide filtrate, to obtain an abundant precipitate which in some respects resembled aluminium hydroxide, but which was due almost exclusively to the presence of the zinc, and precipitates of this kind were accepted as evidence of the presence of aluminium in quantity.

Several students reported the presence of manganese, of calcium, and of magnesium, but we were not able to confirm any of these.

### PRIZES.

The First Prize for the best analysis has been awarded to CHAS. T. BISHOP, 31 Shaftesbury Road, Gt. Crosby, Liverpool.

The Second Prize has been awarded to

R. H. COLLINS, 79 Stockwell Park Road, London, S.W.

*First Prize.*—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.



**Second Prize.**—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

#### MARKS AWARDED FOR ANALYSES.

##### 1. Correspondents who are unqualified :

C. T. Bishop (1st prize)	94	Virus	...	73
R. H. Collins (2nd prize)	92	Pasha	...	72
C. C.	90	Nomen	...	67
Mac	87	Hypo	...	66
Dulcis	84	D. B.	...	60
Niger	84	Rare Chemical	...	59
Cuoxam	79	Vivific	...	53
Heroin	79	Chem	...	52
Lithol	79	En Avant	...	49
Argamate	75	Junior	...	45
Tolut	74	J. W. S.	...	44
Phosphorus	73			

##### 2. Correspondents who are qualified :

Aspirin	84	Hcriotonian	...	72
Cobalt	75			

#### TO CORRESPONDENTS.

**R. H. COLLINS.**—Your ammonium-sulphide precipitate no doubt owed its dirty brown colour to the presence of small quantities of lead and bismuth sulphides. It should have consisted of zinc sulphide only and have been almost colourless.

**C. C.**—Sulphur is not a very likely constituent of an alloy, and ought to have been confirmed. The sulphur you detected was most likely present in the charcoal you employed.

**DULCIS and ASPIRIN.**—You state that hydrogen was given off when the alloy was warmed with concentrated nitric acid, but you do not say how this was ascertained. In view of the inherent improbability of hydrogen evolution in presence of concentrated nitric acid, the evidence should have been given. A brownish-black precipitate could not consist of cadmium sulphide.

**HEROIN.**—Read in the general remarks the statement as to the nature of the white residue left on treating the alloy with concentrated nitric acid. It is difficult to understand how you missed the silver.

**PHOSPHORUS.**—The black residue which you supposed to be mercuric sulphide should have been specially tested for mercury before you concluded that this metal was present.

**VIRUS.**—Your method of attacking part of the alloy with hydrochloric acid and another part with aqua regia was not very appropriate in this case, and led to easily avoidable difficulties. See the general remarks.

**PASHA.**—You appear to have obtained some evidence of the presence of bismuth. It is unfortunate that you did not follow this up to a more satisfactory conclusion.

**NOMEN.**—The phenomena which you observed on examining the original aqua regia residue, and which you attributed to tin, were really due to lead, present in the residue as chloride. The greater part of the bismuth must also have been present in this residue, and it escaped detection as a result of the incomplete manner in which you examined the latter.

**HYP.**—Apparently you treated the alloy with nitric and hydrochloric acids, evaporated, diluted with water, and then neglected the residue and precipitate which this treatment must have yielded. This led to disaster in so far as the detection of silver was concerned. The reply to you in this column last month should have immediately followed that to "Virus."

**D. B.**—The dark brown precipitate which you took for stannous sulphide contained lead and bismuth sulphides. Note particularly, however, that had the residue you tested for tin really contained that metal it would have been present as a stannic compound.

**RARE CHEMICAL.**—It was not superfluous to test for the phosphoric-acid radical. Some valuable alloys contain small quantities of phosphorus (phosphides), and by the action of nitric acid the latter would be oxidised to phosphoric acid. As you will see from the general remarks, the residue obtained on treating the alloy with nitric acid was not due to the presence of tin.

**JUNIOR.**—It will not do to add the various group-reagents to fresh portions of the original solution and to assume that the metallic radicals already detected in the earlier groups will not yield any reactions with the group-reagents subsequently added. Reactions of silver, lead, bismuth, and zinc were responsible for the calcium and magnesium which you supposed you had detected.

WRITE ON A POSTCARD what you think you will do to get Insurance Act dispensing, and post it to the Editor, *C. & D.*, as noted under "Postcard Competitions."

## ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

#### Brevities.

Rhyl chemists have decided to reduce the time of opening on Sunday evenings from one hour to half an hour—viz., from 8 till 8.30 p.m.

Miss Elizabeth Ada Spain has been appointed by the Bradford Corporation Health Committee as dispenser, at a salary of 100*l.* per annum.

The Faversham Town Council has renewed three poison-licences. An inspector reports having visited the premises of the licensees and found that the businesses are satisfactorily conducted.

Mr. N. H. Martin, F.R.S.E., one of the Newcastle-on-Tyne Magistrates who convicted the railwayman Knox of drunkenness, and whose decision has since been reversed after an inquiry by the Home Office, has made a personal statement in court of the Magistrates' position. He complains that the Justices concerned were not consulted in any way by the Home Secretary.

The monthly meeting of the Manchester branch of the Incorporated Society of Pharmacy and Drug Store Proprietors of Great Britain, Ltd., was held at the Mitre Hotel, Manchester, on Wednesday, December 18, Mr. Balshaw presiding. A letter was read from Mr. Davies (Chairman of the Entertainment Committee) giving details of the proposed supper and concert to be held in January.

A beam under the dining-room of the premises at 21 Tacket Street, Ipswich, occupied by Mr. W. H. Stones, chemist and druggist, was found to be on fire shortly after noon on December 20. Mr. Stones promptly cut away sufficient plaster to admit a jet of soda-water. The contents of two syphons prevented all danger of the fire getting ahead until the arrival of the fire brigade. The beam was completely burnt through, and the floor above it had to be shored up. The damage done is slight.

Mr. T. W. Hazelby, pharmacist, High Street, Ringwood, reports that he found the following plants in full bloom during a short walk on Sunday morning: *Ranunculus ficaria*; *Lamium album* and *L. purpureum*; *Bellis perennis*; *Senecio vulgaris* and *S. Jacobea*; *Lycopsis arvensis*; *Matricaria inodora*; *Capsella Bursa-pastoris*; *Brassica sinapistrum*; and *Veronica hederifolia*. These show the mildness of the season. In sending us this note Mr. Hazelby adds: "In my garden primroses have been in bloom for the past three weeks, and I have an erigeron and a doricum in full bloom."

#### Tuberculosis Order.

The Local Government Board notify in the "London Gazette" for December 20 that new regulations, cited as "The Public Health (Tuberculosis) Regulations, 1912," have been issued, which will come into force on February 1, 1913. These provide for notification by medical practitioners or medical officers to institutions, or district medical officers, of persons suffering from tuberculosis. Article VIII., which concerns diagnosis of tuberculosis, states:

For the purposes of these Regulations a medical practitioner shall be deemed to have become aware that a person is suffering from tuberculosis when he has arrived at this conclusion from evidence other than that derived solely from tuberculin tests applied to that person.

Schedule B gives the scale of fees as 2*s.* 6*d.* for each notification in the case of private practitioners and 1*s.* in other instances.

#### Liverpool Notes.

The Liverpool "Evening Express" of December 18, in discussing the National Insurance Act, asks what will chemists do? There is an erroneous feeling abroad that not so many chemists will be willing to serve on the panel in Liverpool.

Mr. John Penketh is retiring from the representative staff of Messrs. R. Sumner & Co., Ltd., Lord Street, Liverpool, at the end of the year. Mr. Penketh, who has held the post for over thirty-two years, often recalls his



apprenticeship days, when "you could count the number of patent medicines on your hands." These, he says, were always stocked by the newsagent and stationer, the chemists of that time refusing to stock "patents." In his youth he was with Mr. Pine, of Piccadilly, Manchester, a well-known personality then. He went to Liverpool to work with Mr. John Thompson, who was then laying the foundation of the business of John Thompson, Ltd. Although over seventy years of age, Mr. Penketh says he is still "strong in wind" and enjoys good health.

This Christmastide the window-displays of Liverpool chemists are much better than they have been for some years, drapery and flowers being prominent window-dressing accessories. The following impressions were gained in a tour of the city. Pink is the foundation of the harmonious window scheme by Mr. J. Hy. Robinson, the "chemist-perfumeur," of the Exchange Station Pharmacy. The windows are curtained with pink mercerised cretonne, bunched up into festoons with evergreens. From the centre silk streamers go to different parts of the window. The mirrors at the back are crossed lattice-wise with pink silk ribbon, while the window-bottom is covered with cotton-wool, evergreens, and holly. In different parts of the window are tall glass vases containing Dorothy Vernon roses. Perfumes by leading makers, ranging from 2s. to 2l. 2s., are displayed. The centre of the window is devoted to a special display of "My New Perfume," the Persian Lily. Messrs. Thompson & Capper, Ltd., both at their Bold Street and Lord Street shops, are making a special show of "Harmony of Boston" perfumes and Violet Dulce perfume. In addition to large cushion sachets, there is a special display of American chocolates. Candy is also shown, along with vacuum flasks. The new shop-front in Lord Street shows goods to much better advantage. Messrs. R. & J. Herman, Parker Street, are making a special display of Yardley's Enchantress and Nell Gwynne perfumes, also fancy cases, while Atkinson's Poinsetta perfume is given a prominent position. Mr. S. Hardy, St. George's Pharmacy, has a wickered giant bottle of Dorset lavender in the window centre, and all around the window is filed with saleable sizes of this line, which is also being shown by Messrs. J. McGuffie, Ltd., Castle Street. The latter are also showing their "Chloe" perfume, with a varied range of Bourjois perfumery. Their display of vacuum flasks and manicure sets is worthy of note. Mr. Bain, of The Quadrant, Lime Street, makes a special display of cameras as well as Lubin's Paris perfumery; while Mr. Lawrence, Great Charlotte Street, has a specially designed poster to help to sell his display of Christmas presents, mostly perfumery. Another new window which arrests the attention is that of Mr. Geo. Inman, of Dale Street. One window contains perfumery in fancy cases, with multi-coloured silk ribbons making squares through which the public can see the window contents. Glass vases containing Malmaison carnations and perfumed nosegays enliven the display. Another window is devoted to theatrical puffs, face-leathers, and vacuum flasks, while the side-window contains a useful assortment of bath sponges from 2s. 6d. to one guinea. Messrs. Budden & Co., Ltd., London Road, are another enterprising firm whose display of perfumery, safety-razors, hair-brushes, and sachets looks well in their new window. They make a special show of "Billiken" soap and ladies dressed in latest Paris fashions (paper) attached to boxes containing bottles of perfume. Symes & Co., Ltd., Bold Street; Hazel & Robson, Ltd., Rumford Street; Mr. Steen Barr, Berry Street; Jewells, Ltd., London Road, are other chemists making special shows this Christmas.

#### Birmingham Notes.

The chemists' shops looked quite charming with their displays of dainty perfumes, soaps, and toilet requisites. Good business has been done, for Birmingham has never been so prosperous as at present.

The President of the Midland Pharmaceutical Association, has sent out a dainty official Christmas greeting-card adorned with the Society's monogram. This is a new

departure, and quite in keeping with the *suaviter in modo* of Mr. J. A. Radford.

The large shop of Messrs. Morris, Banks & Co. is now vacated. It has been a chemist's shop for over half a century, and was a well-known establishment for many years. This and a shop opposite gave rise to the children's conundrum: Why is the Bull Ring like a country lane? Because it has Banks on one side and Hedges on the other. Messrs. Boots left the shop not so long ago.

#### Contracts.

Elham (Kent).—Corbyn, Stacey & Co., Ltd., for drugs at 47l. 17s. 10d.

Isle of Wight Guardians.—A. Millidge & Son, chemists, Newport, for drugs at 26l. 1s.

Maidstone Guardians.—Mr. F. J. Oliver, chemist, Maidstone, for drugs at 106l. 4s. 1d.

Hull Town Council.—Mr. Leggott, Beverley Road, Hull, for a supply of drugs to the City Asylum.

Oakham Guardians.—Mrs. Wellington, Oakham, appointed chemist to the workhouse for the ensuing year.

North Bierley (Yorks) Guardians.—Harrison, Parkinson & Co., of Bradford, for the six months' supply of drugs, etc., to the workhouse.

Newton Abbot Urban District Council.—Mr. G. A. Barnes, chemist, Newton Abbot, for the supply of disinfectants during the year 1913.

Hull Guardians.—Mr. R. B. Sawyer, Hull, appointed chemist; Mr. B. M. Stoakes, Ph.C., Hull, for the supply of aerated waters; J. Ingram & Sons, for the supply of hospital rubber goods.

Woking Urban Council.—Mr. J. Wearing, chemist, Woking, for Izal disinfecting fluid, 6l. 16s. 6d. per 40-gal. cask; Izal soft-soap, 2l. 3s. 10½d. per gross 1-lb. tins; Izal sulphur candles, 1l. 15s. 6d. gross; Mr. J. J. Sheppard, Woking, for Izal empty pint-tins, 1l. 8s. 6d. gross; Sanitas gummed rolls, 2s. 11d. doz.; Sanitas disinfecting powder (No. 2), 6l. 7s. 6d.

Bolton Guardians.—Corbyn, Stacey & Co., Ltd., for drugs; T. Moscrop & Co., Ltd., Bolton, for toilet-soap, disinfecting fluid, and sulphur; Newton, Chambers & Co., Ltd., Thorncliffe, and Joseph Taylor & Co., Bolton, for disinfecting fluid; Wareing Bros. & Co., Bolton, for hydrochloric acid, etc.; Waller & Riley, Ltd., Bolton, for a supply of drugs, wool, and tow.

#### From Various Courts.

At Denbigh County Court on December 20, J. Parry Joyce was ordered to pay 27l. damages and costs in respect of the loss of three dogs, brought about by laying strychnine to poison cats.

At the Ashton County Court on December 19, Vickers, Ltd., Stalybridge, were fined 25l. for failing to register under the Alkali Act, and 10l. for the emission of sulphuretted hydrogen into the atmosphere, contrary to the requirements of the Act.

At Old Hill (Staffs) on December 18, Arthur Wm. Longmore, a chemist's assistant, said to come from Stoke-on-Trent, was bound over on his own recognisances on a charge of obtaining 2s. 3d. by false pretences. It was alleged that accused obtained the money at a baker's shop by falsely representing that some horse-powders had been ordered by the proprietor.

At the Mansion House Police Court on December 21, Charles Haddon (31), stores assistant, was sentenced to one month's imprisonment in the second division for stealing goods from the drug department of the Civil Service Supply Association, Queen Victoria Street, London, E.C. It was stated that prisoner had been employed by the Association for four years at a weekly wage of 26s.

At Leeds last week, John William Hirst, herbalist, Canal Road, Armley, pleaded not guilty to a charge of selling an abortifacient. It was stated that in consequence of complaints the wife of a detective went to prisoner's shop and asked for something to bring about abortion, and that a bottle of mixture was supplied for 2s. 6d. Accused was committed for trial. It was stated that two other similar charges are to be brought.



At Northwich on December 23, James Marsh, chemical worker, Moreton Street, Winnington, was remanded on a charge under the Prevention of Corruption Act with offering a reward to John Daffern, a joiner employed by Messrs. Brunner, Mond & Co., chemical manufacturers, for information regarding the firm's works and machinery. It was alleged that the prisoner pressed Daffern to get details of water-cooling towers, and furnished lists of questions to which answers were desired. Bail was refused.

At Lewes Assizes on December 18, a jury found that Arthur William Plummer was not guilty of the charges of embezzlement and falsification of accounts brought against him by his employer, Mr. George Stanley Perrett, chemist, Devonshire Road, Bexhill (C. & D., December 7, index folio 841). For the prosecution it was averred that they were able to prove defalcations of at least 50%. Mr. Perrett, in his evidence, admitted that the accountant had found three instances where he had a shortage himself and where sales had been entered wrongly. He also admitted that on one occasion he had paid into the bank 2*l.* too much on the prisoner's figures and 2*l.* too little to counter-balance it. He also made mistakes on June 29 and July 3, and one morning he shot the previous day's takings into the till and did not make up the cash-book until the middle of the day, then guessing at the sundries. He admitted this was very negligent, but it was due to his being in ill-health. His wife had had money from the till, but it had always been accounted for. Mr. I. E. Mannington, chartered accountant, said there were mistakes made in his totals by the difficulty of reading some of the figures. The system of bookkeeping in use was not a satisfactory one. Prisoner, on oath, strongly denied the charge. Neither had he added up the accounts wrongly with the intention to defraud. Travellers' and miscellaneous payments had been made out of the till, and, generally speaking, there was slackness in the financial arrangements of the shop. Mr. Justice Channell discharged the accused.

## IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

### Brevities.

At a meeting of the subscribers to the "Thomas Andrews, Shipbuilder, Memorial Hall," held in Comber, co. Down, last week, a resolution of sympathy with the relatives of the late Mr. J. W. Ritchie, chemist and druggist, was passed unanimously.

The tender of Mr. James Glendinning, Ph.C., Waterloo Place, Londonderry, has been accepted for the supply of medicines to the Londonderry City and County Infirmary for the ensuing year. The contract for surgical dressings has been obtained by Messrs. Fannin & Co., Dublin.

A fire broke out in the upper storey of the premises of Messrs. Maxwell, Greer & Co., wholesale and retail chemist and grocers, Foyle Street and Water Street, Londonderry, on December 21. Fortunately the office staff of Messrs. Burns, Ltd., shippers, whose premises adjoin, were on duty at the time, and detected the outbreak at an early stage. The fire brigade was quickly on the scene and succeeded in extinguishing the fire before much damage had been done.

## SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

### Brevities.

Mr. Swanson, chemist and druggist, late with Mr. Cairnie, chemist and druggist, High Street, Cowdenbeath, is commencing business on his own account at Lowvalleyfield, Fife.

In Dundee Sheriff Court last week, William Murray Smith was sentenced to six months' imprisonment for

embezzling money of his employer, Mr. James Bryce McLaren, chemist, Dysart, for whom he was a manager.

The Glasgow Chemists' Association is the largest of the kind in the British Empire. The membership is now nearly five hundred, and there is no prouder man in Scotland than Mr. J. H. Hart, the President, in whose year of office this unprecedented and unique condition has been accomplished.

Since the Cowdenbeath chemists have closed their shops, every Wednesday afternoon complaints have been numerous of inconvenience caused to many who want medicine. "Could one of the shops (in rotation) not be kept open for the convenience of the public on Wednesdays?" asks a local newspaper.

### Edinburgh.

Mr. Peter Morison, S.S.C., solicitor to the Pharmaceutical Society, was the guest of the evening at a dinner in the North British Station Hotel on Friday, December 20, at which Mr. J. L. Ewing proposed the toast of "The College of Justice."

Mr. Victor Wright delivered a lantern lecture on Friday, December 20, in the Memorial Hall, Currie, under the auspices of the Parish Church Literary Society. The Rev. D. C. Stewart, the minister of the parish, is a brother of Mr. A. K. Stewart, pharmacist, Edinburgh.

## FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

THE GOLD MEDAL offered by the Montpellier Superior School of Pharmacy to the most diligent student (*meilleur élève*) was at the close of the last scholastic year awarded to Mlle. Bland, the daughter of a pharmacist.

THE FRENCH ASSOCIATION.—The 1913 meeting of the French Association will be held next summer at Tunis, and pharmacological science will figure officially for the first time as a separate section, and not, as hitherto, as a sub-section, with M. Perrot, the energetic Professor of *Materia Medica* at the Paris School of Pharmacy, as President.

WHOLESALE VERMIN-KILLING.—M. Jacques Boyer writes in "La Nature" on the destruction of field-mice—a burning question to farmers in the North-Eastern and Eastern Provinces of France lately. He states that arsenical wheat (50 grams of treacle added to a litre of wheat, sprinkled over with arsenious acid mixed with flour) has its advocates, but it is apt to be carried by the rodents to places to which fowls have access. Dr. Hitners' "bread" consists of 80 per cent. of inferior wheat and 20 per cent. of carbonate of barium. Water and yeast are added, and the bread is fermented and baked into bun-shaped cakes, which are broken up and scattered near the mouse-holes. In Denmark field-mice have been suffocated by carbon bisulphide, 1 lb. sufficing to smoke out 500 holes. But the vermin-killer most popular in France just now is the Danyasz Virus, prepared at the Paris Pasteur Institute.

THE INNOCENT PLEASANTRY of inserting fantastic but amusing "news" items in a certain column of the daily paper which has existed at Lyons for many years past has been adopted by the Paris "Journal" lately. I append a few examples:

Sir E. Carson has accepted the Speakership of the Home Rule Parliament on College Green.

It is whispered that peerages will be offered to MM. John Burns and Ben Tillett during the coming season.

M. Lloyd Georges has applied for the chairmanship of the Property Defence League, and put up for election at the Carlton.

This week also the new system of street-watering will be commenced in Paris. The thoroughfares, and especially the crowded crossings, will be watered with an antiseptic liquid capable of instantaneously replacing first-aid dressing. The useless overcrowding of pharmacies by persons who have been run over, so frequent at present in view of the multiplicity of accidents, will thus be avoided.



**PARIS SOCIETY OF PHARMACY.**—At the December meeting M. Léger summarised the researches he has made in collaboration with M. Roques regarding the alkaloids which accompany pilocarpine in the leaves of *Pilocarpus microphyllus*. They had isolated a new alkaloid, to which they have given the name of "carpaline." This is a mono-acid tertiary base containing benzylidene, hydroxy, and lactone groups. On hydrolysis it changes into benzoic aldehyde and two other amorphous bases. M. Grimbart presented a note by M. A. Leclère regarding the estimation of hydriodic acid in tincture of iodine, and M. Mouren a paper by M. Bongrand on the solution of salvarsan for intravenous injections. M. Jaboin submitted a preliminary report of the committee on fluid extract of cinchona, favouring M. Warin's formula, in which the menstruum is alcohol acidified with hydrochloric acid, but without glycerin. M. Barillé, army pharmacist, was elected Vice-President of the Society, and M. Dumesnil annual Secretary. Two vacancies occurring among the foreign corresponding members of the Society, M. Thebault (on behalf of the committee) proposed M. Vintesco (Roumania) and M. J. J. Hofman (Holland). He also proposed M. Saint-Sernin as French corresponding member.

## INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

**A DRAFT OF A BILL** to prohibit the importation, manufacture, and sale of matches made with white phosphorus, together with an explanatory memorandum, is published in the "Gazette of India."

**THE IMPORTS OF MEDICINES** into the port of Dairen during 1911 amounted in value to 67,068*l.*, against 25,263*l.* in 1910. This increase is accounted for partly by the plague and partly by growing imports of patent medicines from Japan.

**DUTY ON CHARAS.**—The Bombay Government have decided that from April 1, 1913, the duty on charas (the resinous exudation of *Cannabis indica*) imported into the Province of Sind, or manufactured in that province, will be raised to Rs. 20 per seer.

**POISONINGS IN OSAKA.**—The deaths from the effects of poisons in Osaka during 1911 numbered fifty-one, of which only two were accidental. The lethal agents used included potassium bichromate, hydrochloric, sulphuric, and nitric acids, corrosive sublimate, and arsenic.

**MR. ROBERT MACLURE SAVEGE, J.P.**, proprietor of Maclure's Pharmacy, Mount Road, Madras, has been elected to represent the Trades Association of the city on the Legislative Council. Mr. Savege is a son of the late M. Savege, of Montrose, Scotland, and was apprenticed to his father, afterwards having experience elsewhere. He passed the Minor examination in 1890, and shortly after went out to India. He is a prominent citizen in Madras and has been a Commissioner of the Corporation for eight years, and during the greater part of the time a member of the Standing Committee. Two years

ago he was appointed an honorary magistrate. Mr. Savege has worked hard for the Trades Association, of which he is now Chairman, and has fought well to secure improvements in the city.

**THE MALARIA CONFERENCE.**—At the Madras conference on November 19 Major A. C. Macgildirist contributed a paper regarding the uses of quinine. In the discussion which followed, Dr. Rutherford agreed with Dr. Bentley that great harm had been done in countries where black-water fever exists by the statement of Dr. Koch regard-

ing the toxicity of quinine. The expression of such an opinion was exceedingly dangerous. Another paper read was by Major F. D. Graham, an officer on special malarial duty in the United Provinces, on the subject of school quininisation experiments in the United Provinces. Dr. Rutherford led the discussion, stating that he is in favour of the free issue of quinine. He said that quinine is largely given to children in the Ceylon schools. Major Graham said that his attitude in regard to the free issue of quinine is that it should only be so issued in the presence of an epidemic, as ordinarily there is not much demand for it. The demand varied from year to year, according to the degree of malaria. The sale of quinine might very largely depend on this fact. Therefore the results of the sale should not be taken as condemnatory of the system of administering quinine.

## OUR GERMAN LETTER.

(Special Correspondence to the "C. & D.")

**German Pharmaceutical Society.**—At the annual meeting recently held under the presidency of Professor Hermann Thoms, it was reported that the Society has 1,100 members, an increase of 500 since 1904. The office-bearers were re-elected.

**Pharmacists in the Army.**—The new German Budget contains a provision for a further increase in the number of active military pharmacists. The volume of work has so increased that it can no longer be accomplished by the "active pharmacists" and "volunteer pharmacists," and it is therefore proposed to create eleven new staff pharmacists' positions, of which three will become effective next year in Thorn, Chemnitz, and Ulm. During next year in all nineteen under pharmacists and 100 upper pharmacists of the Reserve will be called upon to resume their military duties for periods varying from fifty-six to forty-two days.

**Medicine Tariff.**—The medicine tariff for 1913 has appeared a few days earlier than usual, and once more all hopes of an increase in the charges have been shattered. No change has been made in the fundamental principles, so that the percentage of profit remains exactly as heretofore. The only innovation in the tariff is the addition of 429 new preparations. The differences in the prices merely reflect the market fluctuations. Among the preparations which show an increase, in some cases of a halfpenny in the larger quantities, are all alcoholic preparations, ether, chloroform, quinine hydrochloride and sulphate, the iodides, santolin, menthol, ergot, and codeine hydrochloride and phosphate. Prices are lower, *inter alia*, in the case of morphine hydrochloride, cocaine hydrochloride, glycerin, tartar emetic, ol. olivæ, and ol. terebinth. Among the additions figures a charge for "aqua recentissime destillata sterilisata," required in connection with the preparation of salvarsan solutions.

**Insurance of Higher-grade Employees.**—On January 1, 1913, the invalidity insurance scheme described in the *C. & D.*, January 13, 1912, index folio 40, will come into force. Under it every employé whose work is not of a purely manual or mechanical nature, and whose salary does not exceed 250*l.* a year, will be compelled to insure himself in the new Employees' Insurance. This applies to all pharmaceutical assistants, managers, heads of departments, actors and actresses, officers of the mercantile marine, etc. We may repeat the rates of contributions:

Salary under £27 10s. ....	Monthly contribution 1s. 7½d
" between £27 10s. and £42 10s. ...	3s. 2½d.
" " £42 10s. and £57 10s. ...	4s. 10d.
" " £57 10s. and £75 ...	6s. 10d.
" " £75 and £100 ...	9s. 7½d.
" " £100 and £125 ...	13s. 2½d.
" " £125 and £151 ...	16s. 7½d.
" " £150 and £200 ...	20s.
" " £200 and £250 ...	26s. 7½d.

One-half has to be paid by the employer and the other half by the employé, from whose salary it is deducted. The benefits were set forth in our columns a year ago, and it is not until ten years (five for women) that an insured person is entitled to them—viz., (1) disablement pension; (2) old-age pension (a quarter of what has been paid in—e.g., monthly contribution 1*l.*, total paid in 120*l.*, divide by 4 = 30*l.*); (3) widow's pension (two-fifths of the pension paid to her husband); and (4) sickness allowance after six months' illness. It is estimated that the scheme will add 3,750,000*l.* to the cost of production so far as employers are concerned, and coincident with this extra charge the employer is faced by the greater cost resulting from the recently passed extension in the scope of workmen's insurance.



MR. SAVEGE.



## LEGAL REPORTS.

### TRADE LAW.

**Shops Act.—Sale of Medicines.**—At the Liverpool Stipendiary's Court on December 18, the employer of a chemist's assistant, who had sold embrocation and medicines when the shop was supposed to be closed, was summoned for contravening the Act. He submitted that it is reasonable to assume that the articles, which are usually utilised for illness, were required on this occasion for attacks of various complaints. The prosecution's contention was that the proper interpretation of the section is "for existing illness," because otherwise a person might purchase something anticipatory, in fact. The Stipendiary Magistrate (Mr. Stuart Deacon) said he interpreted "illness" as meaning "existing illness." In this case the chemist had not asked whether the articles were needed for illness, so that the onus on the seller had not been discharged. In the circumstances, however, as the case was the first of the kind with which he had had to deal, he dismissed the summons with a caution.

**Shops Act.—A Manager's Meals.**—At Petersfield on December 19, the Timothy White Co., Ltd., chemists, were summoned for failure to comply with Section 1 of the Shops Act, in so far as on November 29 William B. Duncan, chemist, manager of the pharmacy department of defendants' stores at Petersfield, was not allowed an interval of three-quarters of an hour for dinner and half an hour for tea. Mr. Duncan was subpoenaed by the prosecution to give evidence. He stated that he was the only qualified chemist employed at the shop, and was on the premises during the whole time they were open for business. On the date in question he had his full time for dinner, though not right off. He would have a quarter of an hour, and the remainder when his lady assistant came back. In this way he always had his full time both for dinner and tea. Being the manager he had the time to suit himself. There was no time during the day when he was not liable to be called upon to serve, but he always had his full time for meals, if not all at once. The solicitor for the prosecution submitted that the interval for meals must be a definite and continuous break in a man's work. The Magistrates agreed that there had been a technical breach of the law, but dismissed the case on payment of the costs, dealing with it as a first offence under the First Offenders Act.

### Sale of Food and Drugs Acts.

#### MALT VINEGAR.

At Liverpool on December 18, Robert Law, 303 Park Road, Liverpool, was summoned for selling as malt vinegar a liquid which contained 50 per cent. of vinegar derived from other sources than malt. The vinegar had been supplied to the defendant by Messrs. Purnell & Panter, Ltd., vinegar manufacturers, Bristol, and Dr. E. H. Cook, F.I.C., F.C.S., Bristol, gave evidence for the defence. He said that the malt vinegar used as food is now almost invariably brewed from malt and unmalted grain, and not from malt alone. Mr. Webb, managing director of Messrs. Purnell & Panter, Ltd., questioned by Mr. Duder, the prosecuting solicitor, as to the constituent parts of the vinegar, said there were 30 per cent. of malt, 40 per cent. of barley, and 30 per cent. of other cereals. Mr. Duder, having called attention to the Local Government Board's suggested definitions (*C. & D. Diary*, p. 231), said the sample of vinegar did not conform to these. The case was adjourned in order that further evidence may be called as to the precise cereals used by Messrs. Purnell & Panter in the manufacture of their vinegar.

### Dentists Act.

#### D.D.S. U.S.A., AND L.D.S. TRL.

At Bow Street Police Court, London, before Mr. Curtis Bennett, on December 20, Maurice Palm, Great Russell Street, W.C., appeared to answer two summonses taken out by the British Dental Association: (1) for using the designation of a qualification in relation to dentistry which he did not possess, viz. "Dr. Mountjoy Bartlett, D.D.S. U.S.A.," and (2) with unlawfully using the description "Dr. Mountjoy Bartlett, D.D.S. U.S.A., L.D.S. TRL." Mr. R. W. Turner appeared in support of the summonses, and Mr. H. H. Curtis Bennett defended.

Mr. Turner, having opened his case, called Mr. Norman Carew King, Registrar of the General Medical Council,

who deposed that there is no University U.S.A., and therefore there can be no D.D.S. U.S.A. He agreed that it is not essential that a person carrying on business as a dentist should be registered. He did not think that certificates granted by different universities in America are often known by the designation U.S.A.

Mr. George Paternoster, assistant editor of "Truth," said the defendant called upon him with reference to a paragraph that had appeared in that paper as to the nature of the degrees held by Dr. Mountjoy Bartlett. He stated that Dr. Bartlett had gone to the Argentine, that he (Mr. Palm) was carrying on his practice, that the degrees which appeared in his advertisements were his own, and he explained where he had got them. "Truth" had stated:

D.D.S. U.S.A. was granted by the Western University of Chicago. That is not the well-known North Western, but the humble rival, no longer in existence, having succumbed to competition.

Defendant told witness that he was examiner for the Western University in 1905-6.

Mr. H. H. Curtis Bennett submitted that there was no case for him to answer, there being no evidence that the defendant did not possess some certificate. If necessary, it could be proved that he had got a degree. It was issued many years ago, and it might be that the university no longer existed, but that did not do away with the fact that he had been granted a diploma.

The Magistrate said that upon Mr. Paternoster's evidence he should dismiss the first summons. On the other summons, Mr. King was re-called, and said he did not think defendant is a registered D.S. of Victoria. He might have been on the Register there in 1903. There is no licensing body in the Transvaal. Neither R.D.S. Victoria, D.D.S. U.S.A., nor L.D.S. Transvaal would of itself entitle a man to be registered by the General Medical Council. He could not say that the defendant's name does not appear in the Transvaal Register for 1909.

Mr. Curtis Bennett argued that this summons must also fail, as none of the three qualifications possessed by the defendant entitle him to be registered, and it had been held that what an unregistered practitioner must not say is that he has qualifications which entitle him to be registered.

The Magistrate reserved his decision.

## BANKRUPTCY REPORT.

**Re Robert William Tildesley**, Rotherham, York, Chemist and Druggist.—The following are creditors in this failure, last referred to in the *C. & D.*, December 14, index folio 876: Beasdale & Co., Ltd. (15l.); Brook, Parker & Co., Ltd. (10l.); W. H. Collins (126l.); G. B. Kent & Sons, Ltd. (13l.); National Cash Register Co., Ltd. (14l.); Potter & Clarke, Ltd. (15l.); Quilliam & Co. (15l.); Raimes & Co. (20l.); Sanderson & Co. (22l.); Southall Bros. & Barclay, Ltd. (17l.); W. H. Trehern, Ltd. (50l.); Wigglesworth & Co. (11l.); and Yardley & Co. (19l.).

## LIMITED COMPANIES.

### New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

ATLAS PLATINUM DENTAL ALLOYS, LTD. (P.C.).—Capital 500l. R.O., 52 Queen Victoria Street, London, E.C.

JACKSON BROTHERS (OF KNOTTINGLEY), LTD. (P.C.).—Capital 16,000l., in 1l. shares. Objects: To carry on the business of glass-bottle manufacturers, etc., carried on by Tom and John Jackson at Knottingley as "Jackson Brothers."

LINOXYL, LTD. (P.C.).—Capital 3,500l. Objects: To carry on the business of manufacturers of oxygen and oxygen compounds in bulk, and for the application thereto to the production of linoleum, and to adopt an agreement with G. Vincent.

WILLIAM VINT & SONS, LTD. (P.C.).—Registered in Dublin. Capital 5,000l., in 1l. shares. Objects: To acquire the business of druggists, grocers, bakers, etc., carried on by William Vint & Sons at Belfast and Carrickfergus. The first directors are J., R., and T. Vint. R.O., 38 Unity Street, Belfast.



G. W. LAWSON, LTD. (P.C.).—Registered in Dublin. Capital 600*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists, etc. The first subscribers are G. W. Lawson, druggist and grocer, Limavady; Mrs. A. Lawson; and A. F. Maxwell, Ph.C., Londonderry. G. W. Lawson is first director.

WM. BURGESS, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, opticians, perfumers, drysalters, etc., and to take over the business carried on by H. McIntyre, in Liverpool and elsewhere, as "W. Burgess, Whitechapel Pharmacy." The subscribers and first directors are H. McIntyre and J. Penketh. R.O., 64 Whitechapel, Liverpool.

REEVES, SMITH & CO., LTD. (P.C.).—Capital 3,002*l.* Objects: To take over the business of manufacturers of and dealers in surgical instruments, dressings, and hosiery, rubber goods, hospital furniture, and chemists' sundries, carried on by J. W. Reeves as "Reeves, Smith & Co." The subscribers and first directors are J. W. Reeves and H. S. Reeve. R.O., 25 Great Pulteney Street, London, W.

### Company News.

SELPHOSA SALT CO., LTD.—A notice of the appointment of L. Anidjah, of 81 and 83 Essex Road, Islington, N., as receiver and manager, by order of Court (November 29, 1912), has been filed.

CARRAMON, LTD.—A general meeting of the shareholders of Carramon, Ltd. (in liquidation), cough-cure manufacturers, Edinburgh, is to be held in the chambers of Mr. R. G. Morton, C.A., 8 North Street, David Street, Edinburgh, on January 24, at 11.30 o'clock, to receive an account of the winding-up.

NATURAL FOOD CO., LTD.—Resolutions have been passed and confirmed at extraordinary general meetings held at 305 Cambridge Road, London, E., on November 25 and December 11, winding up the company for purposes of reconstruction, appointing Mr. Mortimer Lancaster as liquidator, and approving of a draft agreement between the old company and the new company with the same name.

REGISTER OF COMPANIES.—By notice gazetted on November 20 the following joint-stock companies have been removed from the Register at Somerset House: British Empire Soap Co., Ltd.; Buvo, Ltd.; Springfield Chemical Co., Ltd. Another notice in the "London Gazette" for November 29 states that at the expiry of three months from that date the undermentioned companies will, unless cause is shown to the contrary, be struck off the Register of Companies: Atlas Soap, Oil and Chemical Co., Ltd.; Capsuloid Co., Ltd. [not Capsuloids (1909), Ltd.]; Economic Oxygen Co., Ltd.; Khoosh Bitters (1906), Ltd.; La "Carbonique Pur," Ltd.; Midland Chemical Works, Ltd.; Nozon Medicated Air Co., Ltd.; Phatolenc Co., Ltd.; Wallsend Drug Co., Ltd.

### Charges or Mortgages.

Under the Companies (Consolidation) Act, 1908, Section 93, the mortgages or charges therein specified *act* (except in Scotland) void against the liquidator and any creditor of the company unless filed with the Registrar in accordance with the conditions laid down in the Act.

Full statutory particulars of the following have been filed at Somerset House, London, W.C.

Castle Drug Co., Ltd.—Mortgage debenture dated November 1, 1912, to secure 200*l.*, charged on stock-in-trade, fixtures, utensils, tenancy agreement, trade-marks, etc., connected with company's business at 16 Castle Street, Dudley. Holder: Mrs. E. K. Jennings, 61 Tower Street, Dudley.

Cercbos, Ltd.—Trust deed and agreement executed in connection therewith, dated November 1, 1912, to secure 50,000*l.*, charged on freehold and leasehold lands, cottages, offices, factory and other buildings, and hereditaments, mines, springs, etc., at Greatham and Newcastle-upon-Tyne, Durham, and company's other assets, present and future, including uncalled capital. Trustees: North Eastern Banking Co., Ltd., 22 Grey Street, Newcastle-upon-Tyne.

G. Whelpton & Son, Ltd.—Particulars of 1,500*l.* debentures, created November 22, 1912, the present issue being 600*l.*

John Morgan Richards & Sons, Ltd.—A memorandum of satisfaction in full on various dates from October 14, 1907, to June 15, 1912, of debentures, dated November 4, 1907, securing 18,000*l.*, has been filed.

THE CREDITORS of Mr. C. F. Smith, chemist, Norwich and Lowestoft, recently met, and those of them with unsecured liabilities (325*l.*) agreed to accept a composition of 10*s.* in the pound. They include Butler & Crispe (12*l.*); Butcher & Sons, Ltd. (10*l.*); F. Newbery & Sons, Ltd. (22*l.*); D. & W. Gibbs, Ltd. (13*l.*); Wellington & Ward, Ltd. (12*l.*).

## PERSONALITIES.

Notes for this section sent to the Editor should be authenticated and must not be in the nature of advertisements.

MR. WM. STANDING, chemist, 42 Market Street, Darwen, has been appointed President of the Darwen Tradesmen's Association.

MR. JOHN RYMER YOUNG, Ph.C., F.C.S., The Lindens, Grappenhall, near Warrington, has just been placed on the Commission of the Peace for Lancashire.

MR. H. W. TUFMAN, of Queenstown, Cape of Good Hope, is at present in this country. This visit, which is of a personal nature, terminates on January 4.

MR. ALBERT EBERLIN, chemist and druggist, 2 Chapel Bar and Waterall, Nottingham, has been placed on the Commission of the Peace for Nottingham. Mr. Eberlin is also Chairman of the local Pharmacists' Insurance Committee.

MR. HENRY SIGISMUND KUTNOW (only son of Mr. Sigismund Kutnow), of Jesus College, Cambridge, graduated as B.A. at Cambridge on December 19. Mr. Kutnow is at present studying law in the Middle Temple, London.

M. BURKHARD REBER, pharmacist, founded twenty-five years ago the Société de Crémation de Genève, and his friends propose to commemorate the fact by the issue of a special medal, of which copies will be obtainable at 15*fr.* (silver) and 6*fr.* (bronze) from M. Henry Boveyron, 5 Boulevard du Théâtre, Geneva. M. Reber, who will receive a gold medal, is known to readers of THE CHEMIST AND DRUGGIST for his magnificent collection of pharmacy pots, some of which were described and illustrated in Vol. LXXIII., p. 164.

## BIRTH.

GAMMIE.—At 44 Market Street, Macduff, on December 21, the wife of John L. Gammie, chemist, of a daughter.

## MARRIAGES.

ANDERSON—ROBERTSON.—At Dumbuck Hotel, Dumbarton, by the Rev. Geo. Alpine, on December 20, John M. Anderson to Janet McNaughton, daughter of Mr. James Robertson, Dumbarton.

VEALE—JACKSON.—At "Behington," Dulton Terrace, Medindie, Adelaide, S.A., by the Rev. Wm. Hawke, on November 12, Ben Veale, of Northampton, England, and Sydney, N.S.W., to Elsie Rushmore, second daughter of Mr. and Mrs. J. E. Jackson (late of Stirling, N.B.). [Mr. Jackson was for thirty years with Messrs. Evans Sons, Lescher & Webb, Ltd., and for twenty years their representative in Scotland.]

## DEATHS.

KENYON.—At 15 Brooklyn Avenue, Lynton, Blackpool, on December 18, Mr. Septimus Kenyon, manufacturing chemist, Warrington, aged seventy-three.

PAYNE.—At St. Leonards-on-Sea, on December 16, Mr. Sidney Payne, formerly in business as a chemist in the Market Place at Wallingford, Berks. Mr. Payne, who succeeded to his father's business, retired in 1906. He had been in failing health for some time. He took much interest in public affairs at Wallingford, serving on the Corporation, both as Councillor and Alderman, while he filled the mayoral chair for three years.

PLANTEN.—At 44 Eighth Avenue, Brooklyn, N.Y., on December 8, Mr. John Rutger Planten, for many years head of the American gelatin-capsule house of Planten, aged seventy-seven.

WATERS.—At his residence, Bede Street, Amble, Northumberland, last week, Mr. George Waters, chemist and druggist, 61 Queen Street, Amble. Mr. Waters had carried on business at Amble for nearly thirty years.



## TRADE NOTES.

**P.A.T.A. PRICES.**—The following have been added to the Protected List during December: Arkol, Bronnley's additional preparations, Carna preparations, D.D.D. soap, Dermene, Judson's straw-hat dyes, Macqueen's magnetic carbon discs, Madame Thurza Norris's specialties, Mythol, Purdue's additional preparations, Whelpton's pills, etc., Zombs inhaler. The removals are: Balm and Crème Dalmique, Le Page's liquid glue, Ozo inhalers, Populah safety-razors, Wasmuth corn-rings.

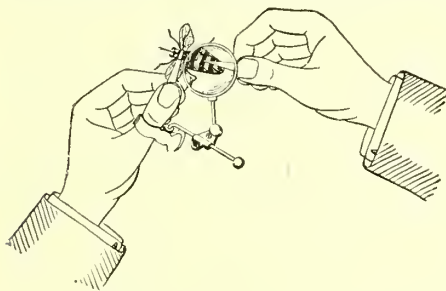
**GLASSCINE LABELS.**—We have inspected samples of the newest patterns of glasscine labels for shop-rounds which are issued by Messrs. Thomas Christy & Co., 4, 10, and 12 Old Swan Lane, Upper Thames Street, London, E.C. The labels are hand-written and the surfaces are of the brilliance of glass. They are readily affixed to the bottles by means of paste, the process being as simple as that employed every day in the pharmacy for fixing labels. The smart appearance of shops in which these labels are employed is indisputable, and the prices are quite reasonable. The labels are also used in large quantities in hospitals and other public institutions.

**FIRST-AID FOR MOUNTAINEERS.**—Messrs. Burroughs Wellcome & Co. do not rest content with their achievements



in the production of compact cases of medical and surgical "first-aid." The latest addition to the series, No. 711, is entitled "The Mountaineer's 'Tabloid' First-Aid," and is an excellent half-crown's worth. It is in the form of a flat, scarlet enamelled, metal case, small enough to go into the handkerchief pocket. It contains boric gauze, a bandage, plaster, "borofax," safety-pins, an aperient and an astringent, a remedy for mountain sickness, and several other appliances and remedies to meet the most urgent requirements experienced by Alpine climbers. The case ought to be useful in other walks of life, and we commend it to chemists as a profitable saleable line for introduction to customers who have half-crowns to spare.

**FOR CHEMIST-OPTICIANS.**—Among the ingenious and useful productions of the Third Hand Patents, Ltd., 361 and



363 City Road, London, E.C., is a novel magnifier which is worth the attention of chemists who deal in photographic or optical goods. The illustration gives a good idea of the "thumb magnifier," which takes its name from the fact that in use it is affixed to the thumb by a clip, thus leaving both hands free to hold and examine under the lens any small object that it may be desired to submit to the process. The lens is a powerful one, and the instrument is of great use to surgeons, engineers, botanists, anglers, and others. The makers inform us that last month over 600 thumb magnifiers were sold, which seems to indicate that the public fancy has been hit. The instrument is made in two qualities, which sell at 2s. and 6s. each. It is a very suitable line for sale by chemist-opticians.

**INSURANCE DISPENSING-LABELS.**—Messrs. James Townsend & Sons, printers, Exeter, send us specimens of dis-

pensing-labels that they have ready for chemists who are to do dispensing under the National Insurance Act. There are three styles of mixture-labels, with the directions printed upon them, space being left for the name of the patient. These are neat and cheap, the price being 2s. 6d. per 1,000 in black ink, or 2s. if 5,000 are taken; in red ink 6d. per 1,000 more. The firm supply labels (1 in. by ½ in.) bearing the words "1d. has been paid for this bottle" and "2d. has been paid for this bottle," at 1s. and 1s. 3d. per 1,000, according to quantity. They also supply handbills, printed in blue, crown 8vo., at 9s. 6d. per 5,000, or 14s. per 10,000, worded as follows:

The National Insurance Act secures to the insured necessary medicine. What the doctor prescribes is "what you need!!" With us it is a rule, with no exceptions, to follow out the doctor's written instructions absolutely. No cutting the quality! We put in the purest and freshest ingredients, and all is done by skilled labour of fully qualified pharmacists.

## WESTMINSTER WISDOM.

The Week in Parliament.

### "BRITISH EMPIRE MADE."

The Merchandise Marks Bill, which has just been brought forward by Mr. Basil Peto, M.P. (*C. & D.*, December 21, index folio 926), is also backed by Major Dalrymple White, Mr. Staveley-Hill, Mr. Norton Griffiths, Sir A. Griffith Boscawen, Mr. E. Parkes, Mr. G. Lloyd, Mr. Page Croft, Mr. J. Hope, and Mr. Hills.

### OPIMUM TRAFFIC.

Before the House of Commons rose for the Christmas Vacation on December 20, Sir J. D. Rees initiated a discussion on this subject, and was followed by Mr. Theodore Taylor, Mr. Acland, the Under-Secretary for Foreign Affairs, replying. There was little in the debate of direct drug-trade interest. Sir J. D. Rees pleaded for the Indian opium trade:

At the present moment, he said, the growers of opium, to the extent of nearly 10,000,000*l.* sterling—a very considerable matter—are not only pursuing a lawful trade, but under express stipulations with Great Britain, have exported this from India to Shanghai. They are being kept out of their rights, and while opium is being bottled up in Shanghai, the Chinese are growing and using, and always will grow and use, opium.

He proceeded to elaborate this, saying also that opium is an extremely beneficial drug and a necessary medicine. Mr. Taylor took the opposite view, and said that there is being produced in China to-day not 50 per cent. of the opium that there was five or six years ago. As to the 10,000,000*l.* worth of Indian opium locked up, he said there is a very large market for this article outside China, and we have only a small stock at present in Calcutta. If we stopped the sale for a while these gentlemen would get off their stocks by degrees, and there would be no claim upon the Government for compensation. Mr. Acland's speech was substantially a plea to give the new Government time. Incidentally, he said:

The Provincial Governments according to the Treaty must not restrict the sale of opium, and I think undoubtedly they have been trying to restrict the wholesale trade in opium. They may not regulate the retail sale of opium, whereas the central Government may. He concluded by saying that public opinion in China favours diminution of the growth of the poppy.

## WILLS PROVEN.

MR. JOHN KIRKNESS, 2 Queen's Road, Kingston Hill, who died on October 1, left estate valued at 2,477*l.* 12s. 3d. gross, with net personalty *nil*.

MR. JOHN DOVE, chemist and druggist, Sherburn-in-Elmet, Yorks, who died on October 10, left estate of the gross value of 1,781*l.* 4s. 4d., of which 1,357*l.* 1s. 3d. is net personalty.

MR. JOHN LIVINGSTONE, chemist and druggist, 58 Baker Street, Stirling, N.B., who died on November 7, left personal estate in the United Kingdom valued at 904*l.* Probate of his deed of settlement has been granted to his sister, Mrs. Minnie Livingstone Blair, and Miss Minnie Livingstone Blair, niece of the deceased.



## WINTER SESSION.

Reporters, and Secretaries of Associations whose meetings are no open to reporters, are requested to send their reports to the Editor not later than the Wednesday following the meeting.

**Aberdeen Juniors.**—The first "At Home" held under the auspices of the Aberdeen Junior Chemists' Association took place in the Carlton Rooms on December 18, and was attended with much success. Dancing was the principal feature on the programme, some thirty-eight couples being present. At supper, Mr. Andrew Craig (Hon. President of the Association) congratulated the members on the large attendance. He referred to the privileges which the chemists' assistants had at the present time compared with those of a few years ago. After supper dancing was resumed, and kept up until an early hour. The M.C.s were Messrs. Calder, Spence, Anderson, and Alexander. Mr. John Mutch proved to be an efficient Secretary.

**Glasgow.**—Mr. J. H. Hart presided at a meeting of the Glasgow and West of Scotland Chemists' Association held in the Regent Tea Rooms on Thursday, December 19. Thirty-six new members were elected. The President spoke about the Association's New Rooms and the attractions they hold out to the members, specially mentioning that there are a microscope and materia-medica cabinet in the library for the use of young members. The Athletic Club finds the rooms a great boon for meetings, and the musical section is anxious to provide a piano, and, with a view to raising funds, propose to hold a series of whist parties in the rooms weekly from January 7. There will be a ballot for the tickets (2s. each). Encouraged by the success of the *Bursary Competition* last June, the Council has decided to hold another early in 1913, full particulars about which will be given later. The President then called upon Mr. J. P. Gilmour to address the meeting on *Insurance Act Dispensing*. He congratulated Mr. Gilmour on his appointment as Convener of the Medical Benefit Sub-committee of the Glasgow Insurance Committee. Mr. Gilmour, in the course of his address, strongly urged chemists to go on the dispensing panels without delay, also to go on as many panels as the position of the pharmacy requires, because during the first three months there will be no clearing house, so that if a member is only on the Glasgow panel and he got a prescription from an insured person, say, in Dumbartonshire, he might have some trouble in getting the money. Mr. Gilmour was cordially thanked. Mr. J. M. Turner then read a paper on *Omar Khayyam*, which was the means of losing the tongue of Mr. Laing of Stenhousemuir, and also drawing from Mr. T. Bristowe Care the following verses:

Awake! Lloyd George, the Radicals' delight,  
Has cast upon our hopes of gain a blight;  
And lo! the Welshman from the west has put  
Our little hopes of profit all to flight.

Now the new Act, awaking old desires,  
The English chemist to dispense aspires,  
While the dispensing doctor sells his shop  
And talks about the cost of motor-tyres.

A thousand notions we had yesterday  
Of what a pharmacist should do or say,  
But now this wretched Act that leaves us poor  
Takes all our pride in pharmacy away.

But come with good Lloyd George and leave the lot,  
Let "Squire" and "Martindale" be both forgot;  
Throw all your text-books on the back-shop fire,  
Let your hard-earned diploma go to pot,

With George, into some place with price-lists strewn,  
Where cheapness is the only god that's known;  
Where chemists thrive on bread and cheese alone,  
And not a man dares call his soul his own.

Here, with a box of pills from off the shelf,  
Cheap drugs, and cheaper dressings, by thyself  
Turn out thy four-and-twenty scrips an hour,  
Twelve hours a day, without a thought of pelf.

The modest cot I'd set my heart upon  
To house me in retirement is gone  
Into the limbo of forgotten dreams,  
Naught's left but toiling on, and on, and on.

Myself, when young, did eagerly frequent  
Pharmacy schools and time and money spent,  
But this is all the harvest I can reap,  
A wretched profit—0.1 per cent.

Into this business I came, not knowing  
That by and by no profits would be showing;  
And out of it, through courts of bankruptcy,  
Into the workhouse I must soon be going.

What! without asking, called on to dispense  
A dozen new prescrips, for eightpence.  
Another drachm of tinct. card. co. to drown  
The memory of such impertinence.

Oh! worthy traveller, with smile urbane,  
When your long journey brings you round again,  
And laden with your bag, you reach this spot,  
My modest pharmacy you'll seek in vain.

But when, my friend, with laggard step you pass  
Along the city streets o'ergrown with grass,  
And meet me, wandering, wretched, where my shop  
Once used to stand, I hope you'll stand a glass.

On the motion of Mr. Gilmour, the essayist was warmly thanked.

**London Assistants.**—The programme of the Chemists' Assistants' Association for the second half-session is as follows:

- |          |   |
|----------|---|
| January  | 2.—Social evening.  |
| "        | 9.—Paper: "Fifty Years Ago and Now," by Dr. H. Macnaughton Jones.   |
| "        | 16.—Social evening.   |
| "        | 23.—Discussion, opened by Mr. W. J. Uglow Woolcock.   |
| "        | 30.—Social evening.   |
| February | 6.—Lantern-lecture: "The Camera among the Mountains," by Dr. C. A. Swan.  |
| "        | 13.—Combined meeting with the Women's Pharmacists' Association: (a) Paper, "Some Difficulties of the Retail Chemist," by Mrs. Freke, M.P.S.; (b) Paper, "The Application of Chemistry to Horticulture," by Mrs. Stephenson, Ph.C. |
| "        | 20.—Cinderella dance, Holborn Restaurant.   |
| "        | 27.—(a) Paper, "Beekeeping as a Hobby for Pharmacists," by C. W. Gosling; (b) Paper, "The Investigation of Phosphorus Preparations," by J. D. Kienel.   |
| March    | 6.—Social evening.  |
| "        | 13.—Paper: "Purity of Commercial Drugs and Chemicals," by F. H. Hocking, B.Sc., and F. H. Gillett, Ph.C.  |
| "        | 27.—Social evening.   |
| April    | 3.—Annual dinner, Holborn Restaurant.   |
| May      | 1.—Annual general meeting.  |

**St. Helens.**—A meeting of the St. Helens Pharmacists' Association was held at the Fleece Hotel on December 18. The President (Mr. J. C. Cotton) was in the chair, and nine members and Messrs. Phillips and Winstanley, of Wigan, were present. The last two gave details of the Wigan Association's new project, the Tru-qual Chemists' Supply, Ltd. During the evening there was also a discussion on the *National Insurance Act*, and the following resolutions were adopted:

That the Pharmaceutical Society adopt a device which would be registered, and thus solely reserved to and for the use of pharmacists, so that the public would at once, upon seeing the sign, recognise that the establishment was under the control of a qualified pharmacist and that there he could have the assistance of a trained intelligence.

That the attention of the Pharmaceutical Standing Committee on Insurance be drawn to the privilege of pharmacists to supply certain spirituous preparations. That they take such steps to conserve to pharmacists that privilege, and to prevent any others supplying these spirituous preparations under the *National Insurance Act*.

**Stockton.**—Mr. T. Salmon presided at a meeting of the Stockton Chemists' Association on December 16, when Mr. E. R. Brackenbury (Middlesbrough), a member of the Insurance Committee, gave an account of the work being done in Middlesbrough, particularly the treatment of tuberculosis patients. Mr. Finlayson gave the members an account of an address delivered by Mr. Rowsell at Leeds. A spirited discussion on the suggested tariff followed, and it was decided to allow the Association to negotiate with the Durham County Insurance Committee on the basis of the tariff.

**PENGUIN-OIL INDUSTRY.**—The "Journal of the Royal Society of Arts" (December 20) contains a description of the penguin-oil industry of Macquarie Island. The penguins are almost limitless in number, the oil being obtained by boiling the carcasses in receptacles capable of dealing with 600 birds at a time. There is a good market for the oil, which is sold to binder-twine makers in Australia and New Zealand.



## Bismuth Tartrate Scales.

By Thomas D. Morson and J. Harpham, Ph.C.

ALTHOUGH not an absolutely new preparation, soluble bismuth tartrate has been little known or used hitherto, and very little information about it is found in works of reference. Considerable attention, however, has been paid to this compound during the past year or so, since emphasis has been laid on the fact that liquor bismuthi et ammon. cit., being an alkaline solution, is incompatible with pepsin and other substances which are therapeutically active in an acid medium only. Also, if liquor bismuthi is dispensed with an alkaloidal solution, such as liquor morphinae hydrochloridi, precipitation is liable to occur owing to the presence of free ammonia. Moreover, liquor bismuthi has always been unsatisfactory, due to the fact that it is easily liable to decomposition unless a sufficient excess of ammonia is present. Hence a bismuth salt which can be readily dissolved in water to give a neutral or slightly acid permanent solution may be justly regarded as offering distinct advantages to the pharmacist who desires to improve the character of his mixtures and elixirs containing bismuth in solution.

We give below a few formulæ which we have found to be successful. These are based on official and unofficial formulæ, and our object is to indicate the direction in which bismuth tartrate scales may be usefully employed rather than to work out recipes which are already familiar. With the substitution of liquor bismuthi tartratis for liquor bismuthi citratis, and bearing in mind that the former is slightly acid, we have successfully prepared a considerable number of elixirs, mixtures, and similar preparations which show a distinct improvement in appearance and keeping qualities over the same mixtures prepared in the old way.

With these few explanatory remarks we pass to the more detailed consideration of bismuth tartrate scales.

*Bismuth Tartrate Scales*, or soluble bismuth tartrate, is somewhat slowly soluble in cold and more readily in hot water, forming a slightly acid solution. It is insoluble in alcohol. On incineration about 50 per cent.  $\text{Bi}_2\text{O}_3$  is obtained. As described in Martindale and Westcott's "Extra Pharmacopœia," fifteenth edition, p. 225, the total ash is about 63 per cent., of which about 13 per cent. is sodium carbonate. One hundred grains of the scales dissolved in water requires from 2 to 3 grains sodium bicarbonate to produce a neutral solution.

Soluble bismuth tartrate is an alternative preparation to bismuth and ammonium citrate when a slightly acid or perfectly neutral solution of bismuth is desired. It is incompatible with dilute mineral acids but not with citric or tartaric acid, and it may be exactly neutralised in solution with sodium bicarbonate or other alkali without causing precipitation of bismuth.

### Liquor Bismuthi Tartratis.

Bismuth tartrate scales	...	...	1,040 grains
Chloroform	...	...	20 minims
Alcohol	...	...	40 minims
Distilled water to	...	...	20 fl. oz.

Dissolve the scales in 10 oz. of distilled water, mix the chloroform and alcohol, add to the solution, and make up to 20 fl. oz. with distilled water. Shake. [Similar procedure is to be followed with the other formulæ.]

### Elixir Bismuthi Tartratis.

Bismuth tartrate scales	...	...	300 grains
Distilled water	...	...	4 fl. oz.
Aromatic elixir to	...	...	20 fl. oz.

### Elixir Pepsini et Bismuthi Tartratis.

Bismuth tartrate scales	...	...	300 grains
Stronger glycerin of pepsin	...	...	2½ fl. oz.
Alcohol (60-per-cent.)	...	...	1 fl. oz.
Simple elixir to	...	...	20 fl. oz.

### Elixir Pepsini et Bismuthi Tartratis cum Strychnina.

Bismuth tartrate scales	...	...	300 grains
Stronger glycerin of pepsin	...	...	2½ fl. oz.
Solution of strychnine hydrochloride	...	...	½ fl. oz.
Alcohol (60-per-cent.)	...	...	1 fl. oz.
Simple elixir to	...	...	20 fl. oz.

### Elixir Pepsini et Bismuthi Tartratis cum Ferro.

Bismuth tartrate scales	...	...	300 grains
Pepsin	...	...	160 grains
Glycerin	...	...	1½ fl. oz.
Distilled water	...	...	2 fl. oz.
Iron and ammonium citrate	...	...	300 grains
Alcohol (60-per-cent.)	...	...	1 fl. oz.
Simple elixir to	...	...	20 fl. oz.

### Elixir Pepsini et Bismuthi Tartratis Compositum.

Bismuth tartrate scales	...	...	300 grains
Stronger glycerin of pepsin	...	...	2½ fl. oz.
Morphine acetate	...	...	9 grains
Diluted acetic acid	...	...	20 minims
Solution of strychnine hydrochloride	...	...	96 minims
Diluted hydrocyanic acid	...	...	192 minims
Alcohol (60-per-cent.)	...	...	1½ fl. oz.
Tincture of cudbear	...	...	½ fl. oz.
Simple elixir to	...	...	20 fl. oz.

### Mistura Bismuthi Tartratis Composita.

Bismuth tartrate scales	...	...	800 grains
Chloroform	...	...	80 minims
Alcohol (60-per-cent.)	...	...	2 fl. oz.
Solution of strychnine hydrochloride	...	...	300 minims
Diluted hydrocyanic acid	...	...	320 minims
Tincture of cudbear	...	...	½ fl. oz.
Distilled water to	...	...	20 fl. oz.

### Mistura Bismuthi Tartratis Composita cum Pepsino.

Bismuth tartrate scales	...	...	800 grains
Stronger glycerin of pepsin	...	...	2½ fl. oz.
Solution of strychnine hydrochloride	...	...	300 minims
Chloroform	...	...	80 minims
Alcohol (60-per-cent.)	...	...	2 fl. oz.
Tincture of cudbear	...	...	½ fl. oz.
Diluted hydrocyanic acid	...	...	320 minims
Distilled water to	...	...	20 fl. oz.

It should be pointed out that these formulæ have been selected especially with the object of showing the precise advantages of employing bismuth tartrate in certain cases. There are, of course, many others which will readily occur to the experienced pharmacist.

## CHEMICAL SOCIETY.

THE papers read at the scientific meeting held at Burlington House, London, W., on December 19, were of the highly specialised type, interesting a limited number of workers. Of the seventy Fellows present barely twenty remained to the end of the meeting. Professor P. F. Frankland, F.R.S., occupied the chair. In the first paper Dr. T. S. Patterson advanced the idea that the temperature curves for the rotation of optically active substances are periodic curves. The influence of the solvent is to move the curve as a whole (alter its phase), while the colour of the light also affects its amplitude, giving anomalous rotation dispersion where the curves cut. He suggested that the rotation might follow a sine curve with some such formula as  $y = c - ax' \cos(bx + c)$ , where alteration in  $a$  varies amplitude, in  $b$  alters period,  $c$  changes phase, and  $d$  expresses the action of solvents. The President and Dr. Lowry discussed points in the paper. Mr. T. R. Merton followed with a method of photographing absorption spectra of varying thicknesses of the same solution between a series of strip spectra of standard density (made by photographing the spectra through standardised neutral gelatin emulsion plates). Professor G. T. Morgan followed with a note by himself and Miss F. M. G. Micklethwait on the constitution of *p*-tolyl-naphtha-triazoles. Dr. Morgan also gave an abstract of a paper in collaboration with Mr. H. W. Moss, in which Werner's theory of co-ordination of compounds was discussed in view of their researches on vanadium acetylacetonates, and after pointing out that elements with minimum atomic volume give the most stable co-ordination compounds, the theory was elaborated that the symmetry of these is not a question of integral valency but of residual affinity. Vanadium bisacetylacetonate,  $\text{VC}(\text{C}(\text{CH}_3)_2\text{CH})_2$ , undoubtedly departs from octahedral symmetry, there being five associated groups, or if  $\text{VO}$  behaves as central "Element" the symmetry is plane-



## SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

**Destruction of Alkaloids in the Body.**—A. J. Clark, as a result of his research on "The Destruction of Alkaloids by Emulsions of the Body Tissues" ("B.M.J.," 1912, II., p. 1099), finds that the livers of the frog and rabbit possess the power of destroying atropine. The heart and kidney of the frog have a slight power, and the same organs of the rabbit less power, to destroy atropine. No other tissue of these animals, and none of the tissues of the cat, rat, or dog, have any power of making atropine disappear. In the livers of the frog and rabbit the power of atropine destruction persists after the cells have been killed. The action simulates that of a ferment.

**Pilosine** is a new alkaloid isolated by F. L. Pyman ("Proc. Chem. Soc.," No. 405, p. 267) from the mother liquors remaining after the separation of pilocarpine and isopilocarpine from the total alkaloids of *Pilocarpus microphyllus*. The yield amounted to 0.007 per cent. of the leaves. Pilosine is a monacid base with the empirical formula  $C_{10}H_{16}O_2N_2$ . It melts at  $137^\circ$ , and has  $[\alpha]_D^{20} + 39.9^\circ$ . It contains an *N*-methyl-but no methoxy-group. It also contains a lactic group. On treatment with acetic anhydride it yields a new unsaturated base, *anhydropilosine* ( $C_{10}H_{14}O_2N_2$ ), melting at  $133^\circ$  to  $134^\circ$  (corr.), and having  $[\alpha]_D^{20} + 66.2^\circ$ . On distillation with 20 per cent. aqueous potassium hydroxide, benzaldehyde and a new base, *pilosinine* ( $C_8H_{12}O_2N_2$ ), is formed. The chemical and physiological properties, as well as the solubilities of the latter base, are very similar to, but weaker than, those of pilocarpine and isopilocarpine, and it seems probable that this base is a lower homologue of these alkaloids. [See also index folio 942.]

**The Constitution of Aconitine.**—In a preliminary communication ("Proc. Chemical Society," 28, 406) O. L. Brady discusses the constitution of aconitine, working from a different standpoint from that of previous workers. He finds that by treating the alkaloid with concentrated nitric acid a compound melting at  $200^\circ$  to  $205^\circ$  is obtained which has the characters of a nitroso-derivative. On distillation with caustic alkali dimethylamine was obtained, and from the mother liquor acetic and benzoic acids were obtained, indicating that the acetyl and benzoyl groups of the alkaloid remain unaltered in this compound. It is a carboxylic acid, and has the following percentage composition:

C=53.8; H=5.5; N=5.8; OMe=12.4 per cent.

It appears to be a simple benzene derivative, containing at least one methoxy- and one carboxyl group, as well as the dimethylamine, nitroso-, acetyl, and benzoyl groups. The formation of Carr's oxonitin on oxidation of aconitine with potassium permanganate is confirmed.

**Alkaloids of Pareira-root.**—Scholtz contributes to the "Archiv der Pharmazie" (1912, 684) a paper on this matter, in which he subjects the work of Faltis to very keen criticism. Faltis assigned the formula  $C_{21}H_{33}NO_3$  to bebeerine and also to isobebeerine, which is a regular constituent of most commercial bebeerine sulphate. He points out that Faltis relied on carbon and hydrogen determinations, whereas he now himself gives a series of analyses of the alkaloids, in which the carbon, hydrogen, and nitrogen were determined. The results were as follows:

C	...	71.76	71.34	71.81
H	...	6.73	6.47	6.88
N	...	5.18	4.89	4.86

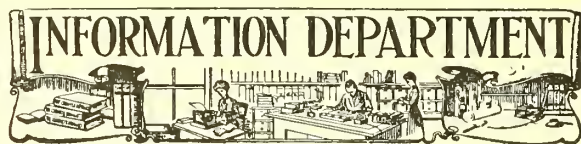
The theoretical values for Faltis's formula and for  $C_{21}H_{33}NO_3$ , which is that now adopted by Scholtz, are as follows:

	$C_{21}H_{33}NO_3$	$C_{21}H_{33}NO_3$
C	...	71.58
H	...	6.66
N	...	4.93

Scholtz has also prepared isobebeerine from a specimen of Merck's crystalline bebeerine sulphate, and gives the following as the results of his analyses:

C	...	71.21	71.29	71.13	71.70	71.46
H	...	6.40	6.55	6.30	6.35	6.54
N	...	4.66	—	—	—	—

These analyses again agree with the formula  $C_{21}H_{33}NO_3$  and not with  $C_{21}H_{33}NO_4$ , which Faltis assigned to isobebeerine also. An estimation of the sulphuric acid in the pure sulphate also agreed with the formula  $C_{21}H_{33}NO_3$ . Isobebeerine is optically active,  $[\alpha]_D^{20}$  in pyridine solution being  $+68.4^\circ$ . It melts at  $295^\circ$ . Scholtz considers that it is a stereoisomer of bebeerine, and that both alkaloids have the formula  $C_{21}H_{33}O(OH)(OCH_3)(NCH_3)$ .



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS LONDON."

Telephone No.: BANK 852 (two lines).

## INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries:

- 163/42. Dr. Hubbard's atomisers.
- 166/240. Proudfoot's pills: makers.
- 165/62. "Seduction" perfume: makers.
- 166/390. Dr. Hoffmann's quinine pessaries.
- 166/6. "Dr. Leith's Cholera Mixture": supply.
- 166/8. Papier poudré d'Irmenian (or Armenian).
- 165/24. Dr. Schneider's silver-coated Marienbad pills.
- 168/15. Ellison's toilet preparations: address of makers.
- 170/16. Indiarubber goods marked "R. S. & Co., London."
- 166/39. Liquor Delphinine (Hermes): present address of makers.
- 163/54. Davies's "Seviadiar" pomade: address of makers.
- 166/31. Importers of Japanese wood or ware containers for perfumery.
- 169/55. Bouquet d'Amour (Maiden's Fancy) perfume (made by Douglas & Co., Isle of Wight).

## INFORMATION SUPPLIED.

During the past week we have answered inquiries as to the makers or sellers of the following articles. The information will be repeated to other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- Amphotropin, 170/67
- Bender's ideal bandages, 169/71
- 169/49
- Bisurated magnesia, 169/490
- "Burst Offs," 167/24
- Casein compound preparations (in bulk), 167/58
- Coty's perfumes, 165/620
- Daggett & Ramsdell's cold-cream, 165/62
- Dalmet's hair-restorer, 168/27
- Face-massage instruments, 166/32
- Febrirene, 166/29
- Genuine Alpine herb-tea, 164/27
- Graduates (makers), 164/35
- "Ideal" perfumes, 165/62
- Insect pencils (Dutch inquiry), 163/34
- Kilerobc, 164/15
- "Kuma" mouth-wash, 169/71
- Lemon-juice, 167/7
- Lime-juice (bulk), 167/700
- "Nell Gwynne" perfumery, 169/68
- Nutrogen, 168/281
- Ozerine, 168/43
- Perfume syphons, 165/53
- Purdue's fluid sulphur, 169/69
- Stearns' preparations (London agents), 169/70
- Tablet-makers (own formula), 168/30
- Trivalin, 168/29
- Vibrators (for Japan), 166/320
- Vundi, 168/280
- "Y.S.C." safety-razor, 168/28

## APPRECIATIONS.

A Manufacturing House sends us the following excerpt from a Customer's Letter:

"The C. & D. you have to thank for telling me where to procure; no wholesale house knew." (157/60.)

From a London Export House:

"We have received a letter from [the makers], Caleutta, giving us full particulars of prices, etc., of the proprietary ointment concerning which we asked you some time ago. Please accept our best thanks for the trouble you always take in these matters." (74/2.)

From a Northern Pharmacist:

"I wonder how many chemists and druggists who receive your paper have any idea of the value of that publication and the organisation which issues it. Time and again I have been obliged to you for special information—information which would have been quite inaccessible to me had your paper not existed. It is obvious that if an unknown person were to ask questions, such as I have asked you, of firms and private individuals, it is likely that he would get no answers at all. Needless to say, I am exceedingly obliged for your replies to my various communications, and in the meantime beg to thank you for all the trouble you have taken." (141/59.)



## OBSERVATIONS & REFLECTIONS.

By Xrayser II.

### "The C. & D. Diary for 1913"

reached me on Tuesday in last week. My first thought after glancing through it was that it contains an enormous amount of very necessary legal information. This extends over thirty-seven pages, and virtually the whole of it, except that which relates to the Insurance Act, is brought together under the heading "The Chemist's Lawyer." The *Diary* for 1910 contained only twenty-one pages of such information, that for 1912 twenty-four; seven of those now added relate to the Shops Act, and nearly five more to Insurance. The present increase is of course an extraordinary one, but the process is always going on more or less rapidly, and one can scarcely help feeling that it is possible to be too much legislated for. The mills of Government, like those of Providence, "grind exceeding small," and bid fair to grind even smaller before long. Let us hope that our future Churchills and Lloyd Georges will temper the wind to the shorn pharmacist; no doubt it is all for our ultimate good (I, for one, have no doubt of it), but the pace has been a little bewildering lately.

### Among other Features

of the *Diary* that invite remark are the additional formulæ from Provincial Hospitals, the Pharmaceutical Formulæ, the New Remedies of the year, and the notes on Retinoscopy supplementary to "The Chemist-Optician." All of these will be appreciated; the first-named is likely to be especially useful in the immediate future, and the last, admirably illustrated as it is, cannot fail to be of great service to the increasing number of chemists who take up optics as a side-line. The lists of identical and almost identical articles in the British and Japanese Pharmacopœias will, I fancy, be a surprise to many. They suggest the possibility of that very desirable thing, a universal standard of medicines. The advertisements of the *Diary* are entirely beyond the descriptive power of my pen; I can only echo Dominie Sampson's "Pro-deeg-ous!"

### Differences of Opinion

are sure to arise, even among equally competent judges, with regard to such problematical questions as Medical Benefit, and the dispute between myself and some of your correspondents is therefore in itself of little or no importance. But the matter in dispute is of vital importance to many pharmacists, and before the day of decision arrives I should like to say one word more upon it. It is easy for gentlemen in the position of Mr. Jackson to sneer at an extra return of 4s. to 5s. a day, but even such a return, when it bears, as in the case contemplated it certainly will bear, a profit of considerably over 50 per cent., means a pretty substantial increase of income to many of us. I have even less personal interest in the matter than Mr. Jackson, but if it is true, as several of my neighbours assure me it is, that 200l. is a fair average net income for a pharmacist to earn in a respectable London suburb, then such an increase as is now offered them is well worth the extra trouble it will entail—trouble that is being enormously over-estimated.

### My Own Experience

years ago as a commercial traveller calling upon chemists of all grades convinces me that with many it is only with great difficulty that a bare subsistence can be secured under present conditions, and it

cannot be too often said that the question confronting us is not the continuance of present conditions, but something much more radical. We must either go on the panels with the hope of improving our condition or suffer an inevitable loss. Who, to whom this alternative presents itself, can hesitate? May I say, in urging this question, that I have considered it throughout without conscious prejudice. Mr. Jackson may doubtless say the same, but he is more in the thick of the fight than I, and evidently the dust of the conflict has affected his sight. Otherwise he could hardly say that the doctors have fought while we have "capitulated," nor would he, I think, have mistaken what I said, not about medical benefit but about sick pay. Both the doctors and we have fought, but with different weapons, and both of us have won concessions. We can win no more; we must "take it or leave it"; this may be merely "self-preservation," and self-preservation may not be "business," but it is the first law of nature.

### "Revolt of the Chemists"

has been a headline in some of the newspapers during the past week, but the fish caught on that hook have been very small fry indeed, and I fancy that those towns that have been honoured with the free advertisement of a "par." are places either where the pharmacists are very young and inexperienced, or where they have never had to face the music of a cutting store or a co-operative dispensary. In any case, they are making a mistake, and they will pay dearly for their rashness. Taking the Associations as a whole, the situation is being accepted with as good a grace as possible, which is very satisfactory. The trade throughout the country are not going to have it laid to their charge that they have done their best to wreck the Insurance scheme, and I am sure that they will not suffer in the long run by this public-spirited attitude. As for the few recalcitrants, I would strongly recommend them even yet to reconsider, and to agree to try what admittedly is the less of two evils, for if any community has a unanimous drug-trade that declines to go on the panel, depend upon it, a worse thing will befall these misguided pharmacists.

### The Veiled Advertisement

—perhaps I may be allowed to call it the advertisement in sheep's clothing—which has recently been made the subject of hostile comment in your columns, is, as I showed last week, an old device, but like a good many other things it does not get more likeable with age. It is undoubtedly getting more and more common every day, and becoming an intolerable nuisance. One would think that the annoyance it causes would react against the advertiser, but in that case he would hardly persist in it. I remember the time when one never met with "ads." of this kind in high-class papers, and when first they began to appear in modern times they had invariably the note "Advt." appended to them. One of the earliest instances I can recall was a paragraph headed "Strange Scene in a Church" in the Liverpool daily papers. It was a very cleverly worded and amusing puff of a cough-lozenge put up by a well-known local chemist, and the novelty of the thing contributed largely to its success. But now the novelty is worn off one can only account for the success of such a trick by accepting Carlyle's verdict on the public of these isles—"mostly fools." The most glaring case I have seen lately is a long account which appeared in a leading daily about a week ago—a report of a public meeting which in effect was nothing more than a puff of a baking-powder.

D





## BATH SALT.

THIS LATEST "SANITAS" LINE IS PUT UP IN

1/- 1-lb. tins | 3/- 4-lb. tins, and  
1/9 2-lb. " | 4/6 7-lb. "

Small sample tins for free  
distribution are available.

TRADE TERMS ON APPLICATION.

The "SANITAS" Company Ltd.,  
LOCKSLEY STREET,  
LIMEHOUSE, LONDON, E.

## JEWSBURY & BROWN'S CITODA

The Special SODA WATER  
for Milk Diet  
and all Medical Purposes.

Send for Particulars to ARDWICK GREEN, MANCHESTER.

# S.V.M.

METHYLATED SPIRIT  
Also RECTIFIED SPIRIT.  
**S.V.R.**

Jas. Burrough Ltd.

D.I. Cale Distillery, Hutton Road,  
LAMBETH, S.E.

## G. S. MUMFORD & SONS, FARRINCORN RD. LONDON, E.C.

Finest <b>ARROWROOT</b>	1/- lb.	No. 1 Finest Pure <b>FULLER'S EARTH</b> (Light Colour)	15/cwt.
<b>BICARB. SODA</b> Finest Extra Special	15/cwt.	Finest Pure <b>LIQUORICE JUICE</b>	10 lb.
<b>BORACIC ACID</b> POWDER, Finest	34/cwt.	Finest Compound <b>LIQUORICE POWDER</b>	8 & 1/1b.
No. 1 Finest Pure <b>CRUSHED LINSEED</b> No Oil Extracted	26/cwt.	<b>PUMICE POWDER</b> Extra Finest Levigated	35/cwt.
No. 2 Pure <b>CRUSHED LINSEED</b> No Oil Extracted	25/cwt.	No. 1 Finest Light Pure <b>PRECIP. CHALK</b>	25/cwt.
Best Cleaned <b>LINSEED</b>	27/cwt.	Finest Pure <b>STARCH POWDER</b>	22/cwt.
<b>EPSOM SALTS, E.S.S.</b> Purified, Clean, and Dry	11/6 cwt.	Finest Pure <b>TOILET</b> <b>OATMEAL, SPECIAL</b>	32/cwt.
Ditto, Medium Crystals	12/6 "	Finest Levigated "WHITE EARTH" (Toilet purposes)	18/cwt.
<b>FLOWERS OF SUL-</b> <b>PHUR</b> , Finest English	13/6 cwt.		
Ditto, Foreign	9/6 "		
<b>FULLER'S EARTH</b> (In Dredgers)	1/1 2 & 7/6 5/6 11/22		

Carriage Paid to railway stations within 200 miles of London (or allowance made for distances beyond). Terms less 2 1/2 per cent. Cash or 1 month net.

PHARMACEUTICAL FORMULAS. (8th Ed.) 10/-, by Post 10/6.  
ART OF DISPENSING. (9th Ed.) 580 pages. 6/-, by Post 6/4.  
VETERINARY COUNTER PRACTICE. (6th Ed.) 4/-, by Post 4/4.  
THE CHEMIST-OPTICIAN. 4/-, by Post 4/3.  
DISEASES AND REMEDIES. (4th Ed.) 3/-, by Post 3/3.  
THE CHEMISTS' MEDICAL DICTIONARY. 2/6, by Post 2/8.  
THE CHEMISTS' DICTIONARY OF SYNONYMS. 2/6, by Post 2/8.

"THE CHEMIST AND DRUGGIST," 42 CANNON ST., E.C.

**FLETCHERS'** FOR FINECTURES, INFUSIONS,  
AND SYRUPS.  
**CONCENTRATED**  
Sole Proprietors:  
**FLETCHER, FLETCHER, & CO., Ltd.** **LIQUORS**  
London and Sydney.

## Editorial Articles.

### Annus Mirabilis, MCMXII.

"This Year will be  
As Years that are past have been."

So Carlyle, while still a young man, wrote in "The Sower's Song." The truth of the saying to the historian we do not gainsay, for he looks on the years after time has levelled spasmodic upheavals and elevated temporary depressions, but in the near view of events 1912 is veritably *Annus Mirabilis* in British Pharmacy and Commerce. Our pharmacy has been gripped in a national effort to combat through Act of Parliament the ailments and diseases which afflict the industrial population, so that the doctoring and physicking of one-third of the inhabitants of Great Britain have been diverted from individual enterprise to national control. In the years that are past there has been no medical or pharmaceutical happening to be compared with this. On July 15, 1912, when the National Insurance Act came into force, Committees in every borough and county borough in Great Britain and Ireland began under the Act to attack that scourge, tuberculosis, which, according to Metschnikoff, affects 90 per cent. of the people in Europe. In our country it is fatal to 70,000 annually—equivalent, as the pharmacist parliamentarian, Mr. W. S. Glyn-Jones, has graphically put it, to a *Titanic* disaster every week. Curative *cum* preventive medicine has not had so huge aid from the State at any time for any disease as this contribution to combat consumption. Yet the Sanatorium Benefit is small compared with the Medical Benefit that begins on January 15, 1913, and differs in so far as the Benefit to come is a Master and Man provision assisted in part by the State, and worked wholly by the State. It may be labelled Socialism, but by whatever name it be called, and with whatever eyes it be viewed, it is to affect British pharmacy in a fundamental manner, so that the years to come will not be as years that are past have been.

In these closing days of the memorable year reflections must be confined to what has been done, rather than to what may happen in the future. Also prominence must be given to the fact that pharmacists in Great Britain have proved equal, in effort, organisation, and unity, to the task of fighting for themselves in respect to the pharmaceutical portion of the Medical Benefit. This is not unique; it happened when Jacob Bell led the fight against the Hawes Bill, and on several less occasions since, but the fight to secure dispensing under the Insurance Act for those qualified by the Pharmacy Act to carry on the business of chemists and druggists looks, at present, the biggest and most successful united effort of retail pharmacy in Great Britain that has been accomplished in modern times. We recall the fact that in the first instance the Pharmaceutical Society appointed a Committee of individuals representing all sections of the retail trade, including companies and firms brought within their purview by the Poisons and Pharmacy Act, 1908. These individuals came together agreeing that their interests were in common, which was a substantial achievement. Then the pharmacists of England, Scotland, and Wales were called together in representative men to



appoint Committees to act for them with the Insurance Commissioners of each country. In due course an International Committee was formed to negotiate with the Commissioners on the points and principles common to the three countries, and delegates from the three countries were admitted to the Advisory Committee which determined the details of the Medical Benefit. The net result is formulated in conditions according to which dispensed medicines, drugs, and medical and surgical appliances will be supplied by the retail drug-trade to insured persons, and in exceptional instances medical attendants will supply the prescribed remedies. Besides, the Insurance Committees in every locality in Great Britain will conform approximately to the conditions agreed upon between pharmacists' representatives and the Commissioners. The chief alternative to representative action was to allow retailers in each locality to fight for themselves with their Insurance Committees. What this would have meant it is difficult to estimate; but certainly we should have seen cutting chemists and companies beating each other down in price so as to get most of the dispensing and supply of drugs and appliances in each neighbourhood. Probably also a network of State dispensaries throughout the country. While we count our blessings, we must not overlook the losses. In the immediate future chemists who have been accustomed to dispense medicines for the working classes seem bound to lose by the Insurance Act arrangement, and no pharmacist, whatever his view of the beneficence of the Insurance Act may be, cannot fail to sympathise with those of his *confrères* who are hit hard by it. The thought takes us back once again to the epigram of the Novacastrian pharmacist, the late Barnard Proctor, who a generation since said he would be a benefactor to his kind who could make one pharmacist grow where two had been. This may be realised by Act of Parliament. Progress in her march is inexorable to the effete; but success lies in the trader who adapts himself to changed circumstances and times.

In beginning these observations we say that 1912 is *Annus Mirabilis* in Commerce as well as in British Pharmacy. It is a fact. The world's trade statistics for the year are not yet available, but it is known that the astounding volume of business done in the United Kingdom has its analogue in other countries, so that anything in the nature of insular self-satisfaction would be out of place. A series of industrial strikes has threatened the well-being of our trade and commerce. The coal-strike of the earlier months of the year seemed when it began to have almost cosmic importance; certainly it appeared to be the beginning of an era that required a Carlyle to record. It passed. The year closes with the biggest record of buying and selling which the world has ever seen. Millions of machines everywhere in the land whirl day and night to produce the manufactures demanded at home and abroad. Workers and their employers are making money fast, perhaps faster and more of it than has ever been done: 1912 is *Annus Mirabilis* in this respect. The conditions are in favour of Goodwill to all men. At present this sentiment rules over the British Empire, and in London we give shelter to those who are endeavouring to make Peace in that part of Europe wherein War has been since last summer. We hope for the best, and look forward to still greater prosperity in the coming year, when the waste of war is over, and men return to useful labour, with the fulness of the reward that comes from work well done.

To the British drug-trade, especially that important section of it identified with THE CHEMIST AND DRUGGIST,

we are pleased to have associated with us in this Sentiment of the Season the following firms whose Christmas and New Year's Greetings appear in our pages:

Allen & Hanburys, Ltd.	R. Hovenden & Sons, Ltd.
Stafford Allen & Sons, Ltd.	Idris & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.	G. B. Kent & Sons, Ltd.
M. Beetham & Son.	Lofthouse & Saltmer, Ltd.
Berdoe & Fish.	London College of Pharmacy.
Berkfeld Filter Co., Ltd.	Lorimer-Marshall, Ltd.
Bidwell, Bidwell & Co., Ltd.	J. F. Macfarlan & Co.
Boulton Macro, Ltd.	W. Martindale.
H. Bronnley & Co., Ltd.	S. Maw, Son & Sons
Burge, Warren & Ridgley, Ltd.	Oldfield, Pattinson & Co.
Burgoyne, Burbidge & Co., Ltd.	Orridge & Co.
Burt, Boulton & Haywood, Ltd.	W. T. Owbridge, Ltd.
W. B. Cartwright, Ltd.	Papier Poudre, Ltd.
E. Cook & Co., Ltd.	C. H. Phillips Chemical Co.
Daisy, Ltd.	Robinson & Sons, Ltd.
Duncan, Flockhart & Co.	Sangers.
W. Edwards & Son.	F. Schutze & Co., Ltd.
Erasmic Co., Ltd.	T. & H. Smith, Ltd.
Eucryl, Ltd.	Christy Strong.
Evans Sons Lescher & Webb, Ltd.	Thos. Swales.
Fairchild Bros. & Foster.	T. Tyrer & Co., Ltd.
J. M. Farina (J. & R. McCracken)	Valda Pastilles.
Ford, Shapland & Co.	Vinolia Co., Ltd.
W. Gardner & Sons (Gloucester), Ltd.	Wait-and-See Proprietary.
Goodall, Backhouse & Co.	Westminster College of Pharmacy.
T. & W. Henry.	Wright, Layman & Umney Ltd.
Horlick's Malted Milk Co.	G. H. Zeal.

May the year nineteen hundred and thirteen be progressive and prosperous to Pharmacy, the Drug and Chemical Trades, and all engaged in them.

## Empire Trade.

THREE Parliamentary papers have recently been issued dealing with the trade of the Commonwealth of Australia, South Africa, and India. The first two reports have been written by the Trades Commissioners, Mr. C. Hamilton Wickes and Sir R. Sothorn Holland respectively, but neither of them throws much light on the chemical and drug industries, much of the information being general. Taking the Australian report first, we find the year was a prosperous one for the Commonwealth. Manufacturers were fully occupied, although there was some restlessness among employes, which culminated in strikes. The imports and exports show a considerable increase over the previous year, and the gross totals were the highest on record. The imports showed a total of 66,860,303*l.*, and the exports a total of 79,484,226*l.* (including in each case bullion and specie), making in all a total interchange of 146,344,529*l.*, an increase of almost 12 millions sterling as compared with 1910, which in its turn was a record year. The total imports into the Commonwealth of goods of United Kingdom origin showed an increase of 2,300,000*l.* in 1911 as compared with 1910; the increase in 1910 was 4,600,000*l.* as compared with 1909. This shows a decline in the percentage of British imports from 53.6 in 1906 to 49.8 last year, but, eliminating such things as sugar, tea, coffee, copra, as being outside of U.K. trade, the fall is much less. It is a remarkable fact that some States use a large amount of British goods, while others import a very small percentage of the same British articles but rely on foreign products. Much of Mr. Wickes' report is taken up with hardware manufactures, machinery, and electrical goods. As already stated, no mention is made of chemicals or drugs, but a paragraph is devoted to "perfumed spirits and bay-rum," the foreign supplies of which



were derived mainly from France and Germany. Queensland, South Australia, and Western Australia imported a larger percentage of foreign perfumed spirits than either New South Wales or Victoria, which are the largest importers. It may have been thought that the United Kingdom was pre-eminent in the soap-trade, but such is not the case, as out of a total of 88,654*l.* toilet, fancy, and medicated soaps imported into the Commonwealth, only 31,519*l.* came from the United Kingdom, no less than 48,429*l.* being obtained from the United States, while Germany accounted for the remaining 5,341*l.* New South Wales was the stronghold of the American soap-trade, that State taking 23,758*l.*, whereas we supplied 5,160*l.* only. In Victoria the figures are somewhat reversed, we supplying 21,262*l.* and the U.S.A. 9,973*l.* British soapmakers should note this success of the U.S.A. and Germany. Almost similar conditions apply to the imports of surgical and dental instruments, the total imports of which were valued at 106,554*l.*, of which we supplied 45,358*l.*, U.S.A. 41,758*l.*, and Germany 18,072*l.* Here again New South Wales was America's best customer, her purchases from that country being 27,737*l.*, as against 18,307*l.* from the U.K.; but Victoria bought 18,888*l.* worth from us, as compared with 9,425*l.* from the U.S.A. Germany also supplied 11,452*l.* worth to New South Wales. Evidently British firms may be well advised to pay attention to this State, in which the United States and Germany appear to have got an excellent footing. Those who would like further information on the above trades would do well to communicate with the Commercial Intelligence Branch of the Board of Trade. The most striking feature of the report as a whole is that during 1911 foreign firms, especially America, have been paying increased attention to Australia by sending over special representatives to organise their agency arrangements.

In the South African report there is practically nothing of direct interest to the drug-trade beyond the mere fact that the imports of "drugs, chemicals, apothecaries' wares, surgical requisites, etc.," in 1911 amounted in value to 724,391*l.*, being 83,542*l.*, or 13 per cent., more than in 1910, and 47.52 per cent. more than in 1907. Out of a total trade in merchandise of 36,400,000*l.*, the United Kingdom last year supplied 21,250,000*l.*, or 58.35 per cent., while the trade of the British Empire as a whole amounted to 24,900,000*l.*, or 68.4 per cent. Against this the trade of foreign countries taken together amounted to 11,500,000*l.*, or 31.6 per cent. The general imports increased by 35.61 per cent., and the exports of South African produce by 14.25 per cent. Sir R. Holland draws three conclusions from the increase in imports: that there has been a great expansion of local industrial development, that a remarkable increase has taken place in the general prosperity of the people, and that the mining industry remains in a flourishing condition, though developmental operations have been temporarily suspended. On the whole, we would appear to be doing much better in South Africa than in Australia. This seems to be a matter for the British Imperial Council of Commerce to look into when its organisation is perfected.

As regards India, the total sea-borne trade was 260,515,842*l.* in 1910-11, or 24 millions sterling more than in 1909-10; the imports of private merchandise accounted for 86,236,011*l.*, being almost 8,000,000*l.* more, and the exports of private merchandise were 137,218,095*l.*, or 14,000,000*l.* more. The value of imports of merchandise (exclusive of Government stores) from the United Kingdom was 52,637,281*l.*, or 4,000,000*l.* more than in 1909-10. British

possessions supplied 6,894,264*l.*, or 600,000*l.* more than in 1909-10, and foreign countries supplied 26,704,466*l.*, or almost 4,000,000*l.* more.

### Swiss Chemical Industry.

IN view of the growing importance which the Swiss chemical industry, particularly in the manufacture of pharmaceutical preparations, has attained in recent years, the following figures taken from the table of official imports and exports for 1911 are of interest. The figures referring to Great Britain and British Colonies, where given, are also reproduced:

	Imports	Exports
	Kilos.	Kilos.
Pharmaceutical raw materials ... ..	659,400	26,100
<i>British India</i> ... ..	105,200	—
Essential oils ... ..	11,000	9,700
Alkaloids ... ..	9,400	20,700
<i>British India</i> ... ..	3,400	—
Saccharin ... ..	100	92,900
<i>Great Britain</i> ... ..	—	19,300
Sera and vaccines ... ..	1,400	2,100
Pharmaceutical preparations ... ..	163,400	375,400
<i>Great Britain</i> ... ..	5,100	14,400
Pharmaceutical powders, ointments, etc. ... ..	320,800	240,000
<i>Great Britain</i> ... ..	26,000	27,700
Perfumery and cosmetics ... ..	119,500	222,800
<i>Great Britain</i> ... ..	10,700	10,500
Catechu ... ..	1,175,500	—
<i>British India</i> ... ..	1,175,200	—
Shellac, copal, damar, etc. ... ..	259,700	—
<i>British India</i> ... ..	174,700	—
Barium oxide, lead peroxide, sodium peroxide ... ..	374,100	9,900
<i>Great Britain</i> ... ..	95,500	—
Calcium carbide ... ..	176,000	24,615,200
<i>Great Britain</i> ... ..	—	725,000
Chlorates, perchlorates, persulphates... ..	93,800	2,224,000
<i>Australian Commonwealth</i> ... ..	—	208,600
Copper sulphate and fungus-destroyers ... ..	2,277,500	48,600
<i>Great Britain</i> ... ..	477,500	—
Oil of cloves, lavender, camphor, etc. ... ..	84,600	2,100
<i>British India</i> ... ..	22,400	—
Methyl alcohol, collodion, organic compounds of bromine, chlorine, iodine, etc. ... ..	1,076,650	75,900
<i>Great Britain</i> ... ..	21,600	600
Coal-tar derivatives for the manufacture of anilin... ..	2,781,600	87,400
<i>Great Britain</i> ... ..	196,600	100
Anilin dyes, etc. ... ..	552,600	7,082,500
<i>Great Britain</i> ... ..	10,500	806,000
<i>British India</i> ... ..	—	460,000
Varnishes, etc. ... ..	709,000	35,200
<i>Great Britain</i> ... ..	73,300	500
Raw castor oil ... ..	281,200	200
<i>Great Britain</i> ... ..	69,400	—
Fluid fats and oils, raw ... ..	4,037,700	23,300
<i>Great Britain</i> ... ..	817,300	—
Animal oils, raw ... ..	484,700	10,200
<i>Great Britain</i> ... ..	66,400	—
Tallow, etc., raw ... ..	2,077,600	277,000
<i>Great Britain</i> ... ..	316,200	—
Toilet-soaps, etc. ... ..	172,100	23,300
<i>Great Britain</i> ... ..	18,900	300
Blackening, leather-dressings, metal-polishers, etc. ... ..	425,800	101,000
<i>Great Britain</i> ... ..	32,000	900

On an examination of these figures we find that Switzerland is a very small buyer of chemical products from Great Britain, countries like Germany, Austria-Hungary, France and Italy, owing to their geographical position, furnishing the greater part of Switzerland's requirements. We learn that the chemical industry in Switzerland enjoyed a season of general prosperity during 1911, but that the industry is beginning to feel the pressure of foreign competition as well as the prohibitive protective tariffs of many countries. This is a matter which is briefly



referred to in a recently issued American daily Consular Report on Swiss Commerce, which deals with Basle, Berne, Geneva, St. Gall, and Zürich. Mr. J. C. Milligan, H.M. Vice-Consul at Zürich, gives the following figures for 1910 and 1911 of the four categories under which chemical products are classed :

	Imports		Exports	
	1910	1911	1910	1911
Pharmaceutical articles, drugs, and perfumes ...	£ 325,000	£ 359,700	£ 482,100	£ 570,900
Chemical substances and products for industrial purposes ...	1,523,000	1,664,600	540,700	655,200
Colours ...	362,400	378,000	1,045,200	1,067,300
Greases, oils, wax for industrial purposes, soaps, etc....	1,019,800	1,045,000	47,700	66,000
Total ...	3,230,200	3,447,300	1,155,700	2,359,400

Mr. Milligan, in his report, gives some valuable hints as to how an increased trade may be done with Switzerland, and in a suggestive list of articles he mentions perfumes and soaps, of which the imports were 137,000*l.*, only 4,800*l.* being obtained from the United Kingdom.

## Postcard Competitions.

### "C. & D. DIARY" COMPETITIONS.

Each copy of *The Chemists' and Druggists' Diary, 1913*, sent to subscribers contains a coupon postcard which entitles the recipient or any member of his staff or family to compete for ten guineas in prizes. Card 1 is for replies to five questions printed upon the card, while Card 2 is for a pithy sentence, not exceeding sixteen words, in regard to something pertaining to pharmacy, the words being selected from the *Diary* advertisements. Subscribers in the United Kingdom and other parts of Europe should post their cards as promptly as possible, and not later than January 18, 1913.

### INSURANCE DISPENSING.

We invite suggestions in regard to dispensing under the National Insurance Act. Dispensing has been secured by the revised regulations to chemists in Great Britain except in certain rural areas, and the problem for many of them will be how to get their share of the dispensing. They must cater for it as they do for other business, and what we want is suggestions on postcards as to handbills, notices, window-displays, counter arrangements, or other means for letting insured persons know that they can get their prescriptions dispensed or orders for drugs and appliances filled by going to a particular person or firm. We shall award twelve prizes of 5*s.* each for the best ideas received and printed. Subscribers to the *C. & D.* and members of their staffs are invited to compete and to send in the postcards as promptly as possible, but not later than December 31, 1912.

## PRESCRIPTION PROBLEM.

THE script which was set as a prescription-reading exercise in the *C. & D.*, November 2, index folio 686, did not bring a rush of postcards. The difficulty was that the first ingredient—*ol. schleicheræ trijugæ*—is one with which many are unfamiliar. This product is from a well-known Indian tree which yields edible fruits, durable wood, lac, and the oil with which we are concerned here. The oil has the reputation of being a stimulant of the growth of the hair, and is stated by some authors to be an ingredient in Macassar oil. The following is the correct transcription of the prescription :

R *Ol. Schleicheræ Trijugæ* ʒiii  
*Ol. Rosmarini* ʒiiss  
*Euresol* m̄x  
*Ol. Sesami* ad ʒii  
 Sig. Compound Oil.

We received fourteen correct transcriptions, and of these the following five were posted on November 1. To each

of these we award a copy of the "Chemists' Dictionary of Synonyms" or of the "Chemists' Medical Dictionary": Mr. H. W. Bartlett, Ph.C., 37 Crawford Street, Bryanston Square, London, W.; Mr. W. H. Brown, 8 Coltbridge Terrace, Murrayfield, Edinburgh; Mr. C. Kemsey-Bourne, The Pharmacy, West Bromwich; Mr. R. J. Marshall, Morton Terrace, South Queensferry, Edinburgh; Mr. J. M. R. Stewart, 39 Thirlestone Road, Edinburgh. Competitors should inform us by postcard which book they select.

The following is the prescription forming the subject of the next competition. We shall be glad to receive postcards before January 4. The prizes will be awarded at the discretion of the Editor, and in case of close competition, time of posting will be taken into account.

*Dr. Por. Doell*  
*Sp. ...*  
*...*  
*...*  
*...*

## NEW BOOKS.

Any of these books printed in the United Kingdom can be supplied, at the published price, to "C. & D." subscribers on application (with remittance) to the Publisher, 42 Cannon Street, London, E.C. These notes do not exclude subsequent reviews.

Allmand, A. J. *Principles of Applied Electro-Chemistry*. 8 $\frac{3}{4}$ ×5 $\frac{1}{2}$ . Pp. 560. 18*s.* net. (E. Arnold.)

Arber, Agnes. *Herbals, Their Origin and Evolution: A Chapter in the History of Botany, 1470-1670*. 9 $\frac{1}{2}$ ×6 $\frac{1}{4}$ . Pp. 274. 10*s.* 6*d.* net. (Cambridge University Press.)

Beveridge, W. W. O., and Wanhill, C. F. *Sanitary Officer's Handbook of Practical Hygiene*. 2nd edit. 7 $\frac{1}{2}$ ×5. Pp. 246. 6*s.* net. (E. Arnold.)

Dunn's *Pure Food and Drug Legal Manual*. Edited by Charles Wesley Dunn, A.M., of the New York Bar. Vol. I. Pp. xxvi+2347. (Dunn's Pure Food and Drug Legal Manual Corporation, New York, 1912-13.) [This work deals with the food and drug laws—federal, state and territorial—and kindred subjects, as administered in the United States. The infancy of most of these laws presents the possibility of much legal commentary as we understand the words, and the book is rightly described as "edited" by Mr. Dunn. It is, in fact, rather of the nature of a "dictionary" of the food and drug laws of the United States, and one which will obviously be indispensable to all those interested in the working of these Acts.]

Pagniello, A. *L'Acido Cianidrico*. Pp. 500. 8vo. Lire 8. (Venice: Libreria Emiliana.) [This work in the Italian language is in three parts, with an introduction of forty-four pages. The first part treats with the production, chemistry, and toxicology of hydrocyanic acid and of cyanogen compounds, including polymerisation products. The second portion is concerned with the function of hydrocyanic acid in the synthesis of organic products by living plants, etc.; while the third part deals with the rôle hydrocyanic acid plays in laboratory syntheses.]

Rogers, Allen, and Aubert, Alfred B., eds. *Industrial Chemistry: A Manual for the Student and Manufacturer*. 10 $\frac{1}{4}$ ×6 $\frac{1}{2}$ . Pp. 868. 24*s.* net. (Constable.)

Rutherford, E. *Radioactive Substances and their Radiations*. 8 $\frac{3}{4}$ ×5 $\frac{1}{2}$ . Pp. 708. 15*s.* net. (Cambridge University Press.)

Stephenson, Sydney. *Ophthalmic Nursing*. 3rd edit. 7 $\frac{1}{2}$ ×5. Pp. 244. 3*s.* 6*d.* net. (Scientific Press.)

Whitaker's *Peerage, Baronetage, Knightage, and Companionage for the Year 1913*. 5*s.* net. [Contains 854 pages, and begins with an Obituary of 1912, which is followed by an Introduction dealing with the Sovereign, Peerage, Parliament, Church, and correlative matters. Then come the Royal Family, a Directory of the Peerage, Baronetage, etc.]



## National Health Insurance.

### Insurance Drug-tariff Meetings.

*Here we group reports of meetings of chemists and druggists at which the proposed tariff of dispensing charges prepared by the Pharmaceutical Standing Committee has been considered and decisions arrived at, as well as other news concerning chemists and the Act.*

**Hawick.**—The chemists and druggists of Hawick have decided to refuse service under the Act on the terms offered.

**Kelso.**—The three chemists in this town are of opinion that the terms and tariff are in parts so monstrously unfair that they cannot see their way to go on the panel until better terms are offered.

**Nottingham.**—In reply to a circular issued by the Nottingham Insurance Committee, seventy chemists have applied to be placed on the panel, and it is anticipated that there will be more applications.

**Tockton-on-Tees.**—At the meeting of local chemists who agreed to go on the panel it was urged that the members should turn out the best work possible in order to convince the Commissioners and insured persons that pharmacists are best fitted to do this work.

**Galashiels** chemists and druggists decided that the Act should be given a fair trial; but since the tariff was received they are very indignant about it, being of opinion that the tariff has been framed from price-lists for a very inferior quality of drugs. They also object to the dispensing-fee for mixtures. Accordingly they have signed for three months only.

**Birmingham.**—On December 18 a deputation representing the Midland Pharmaceutical Association, and consisting of Councillor Poole, Messrs. F. Barlow, E. Thompson, H. Buckingham, A. W. Southall, H. O. Lloyd, T. H. Prosser, and F. J. Richards, submitted to the Birmingham Insurance Committee the schedule of prices which was approved for a provisional period of three months, at the end of which time either side may move for revision if practical working of medical benefits shows it to be desirable.

**Banffshire.**—Mr. Alexander presided at a well-attended meeting of the County Pharmaceutical Association held at Keith on December 18. After Mr. Charles Simpson (Aberdeen), member of the Scottish Pharmaceutical Standing Committee, had given an account of the work done by the Committee, a discussion on the tariff took place. Several members advocated rejection; but by a majority the resolution, moved by Mr. Pirie and seconded by Mr. Dawson, to give the tariff an experimental trial, though deploring the low scale of prices and inadequacy of dispensing-fees, became the finding of the meeting. Arrangements were made for meeting the local Insurance Committee.

**Stirling.**—Mr. R. G. Drummond presided at a meeting of the Stirling, Clackmannan, and Kinross Counties' Pharmaceutical Association on December 18, which resolved as follows:

"That this Association, while not desirous of placing any obstacle to the carrying out of the Insurance Act, desire to express the opinion that the remuneration offered to pharmacists by the tariff is inadequate, and that this be communicated to the respective Insurance Committees in the Counties of Stirling, Clackmannan, and Kinross."

"That the members of this Association accept service for the supply of drugs, medicines, and medical and surgical appliances provisionally for three months."

**Torquay.**—Mr. J. Taylor presided at a meeting of the Torquay and District Pharmacists' Committee held on Friday, December 20. It was unanimously decided to adopt the suggested tariff, with the following differences:

(1) To strike out the lines on p. 15 which provide that the money paid for medicine-bottles shall be refunded when they are returned.

(2) To add a provision that a charge of 25 per cent. on the total cost of the prescription shall be added in a case when medicines are supplied to insured persons between the hours of 8 p.m. and 8 a.m. and on Sundays and Bank Holidays.

Messrs. J. Taylor, E. Quant, W. B. Douglas, T. W. Dunsford, and F. March were appointed to treat with the local Insurance Committee.

**Dorsetshire.**—A special meeting of the Dorset County Pharmacists' Association was held at the London Hotel, Poole, on Wednesday, December 18, at 6.15 p.m., which was attended by more than two-thirds of the chemists of Dorset, many of whom had to leave home about noon to attend and return next day. A discussion took place on the tariff and the general working of Insurance dispensing. A deputation was appointed to meet the Insurance Committee, with full powers to act for the Association, on the understanding that nothing less than the tariff would be accepted. Two Dorset chemists decline to go on the panel unless the deputation can get the Committee to delete from the agreement

Regulation 43 (2) (see *C. & D.*, December 21, index folio 912).

**Staffordshire.**—Mr. T. C. Cornwell presided at a meeting of the North Staffs Chemists' Association held at Stoke on December 19, when Mr. T. Bentley (Secretary), and Mr. E. M. Mellor were elected to represent the Association on the County Association Committee. Messrs. T. C. Cornwell, J. A. Dale, R. Prince, S. G. Challinor, A. P. Tiley, S. W. Pigginn, and T. Bentley were appointed to interview the local Insurance Committee. Thirteen new members were elected.

**Isle of Wight.**—At a meeting of the Isle of Wight Pharmacists' Association held on December 18 at the Guildhall, Newport, Mr. H. H. Pollard, J.P., presiding, the tariff was unanimously adopted, with the addition of certain minor details. Mr. H. J. Sadler (Hon. Secretary) has received and forwarded to the proper quarter twenty-nine out of a possible thirty names of those willing to serve on the dispensing panel. The Organisation Committee was elected the Pharmaceutical Committee for the island, and also delegated, together with the Newport pharmacists, to interview the Insurance Committee. [We are asked by the Secretary to remind members that no agreements posted to them by the Insurance Committee should be signed or returned to that body until they further hear from him.]

**Doncaster.**—A meeting of the Doncaster Association of Pharmacists took place at the Albany Hotel, Doncaster, on December 16, the President (Mr. W. E. Plant) in the chair. There were also present fourteen members and the Hon. Secretary (Mr. Harry W. Stiles). Messrs. R. Troughton and B. L. Burrell were unanimously elected members. After a short discussion had taken place on Christmas closing, the Secretary reported on the mass meeting of West Yorkshire pharmacists at Leeds. He referred to the method of payment, and said he hoped to get as large a percentage of chemists as doctors on the district Insurance Committee. Mr. Stiles signified his intention of interviewing the West Riding authorities at Wakefield on the following day. He also announced that every pharmacist in the district was going upon the panel.

**Rhyl.**—A meeting of the West Denbighshire Pharmacists' Association was held at Rhyl on December 13. Mr. Neill (Colwyn Bay) was in the chair, and there were ten members present. Mr. J. W. Adamson was elected to negotiate, on behalf of the Association, with the County Insurance Subcommittee on Medical Benefit. The drug tariff was considered at length, and it was decided to press for a dispensing-fee on all goods on the tariff, a double fee for all dispensing after business hours, and a fee for appliances after business hours. It was also decided that the hire-charge for all bottles should be at the poison-bottle rate, and the words "Sound and clean" to be inserted. Alterations in the tariff drug-list prices—some of which are obviously wrong—were left in the hands of the Colwyn Bay Pharmacists' Association, the whole tariff when revised and corrected to be presented as the basis of negotiation.

**Scarborough.**—A meeting of the Scarborough Association of Pharmacists was held on December 17 at the residence of the President (Mr. W. R. Eyre). Eleven members were present, and Mr. G. H. Meadley (Hon. Secretary). Mr. Whitehead (Pickering) was elected a member. After a report of the mass meeting of pharmacists held in Leeds, the Insurance Secretary (Mr. W. A. Senior) introduced the subject of the tariff for dispensing as issued by the Pharmaceutical Standing Committee on Insurance. After a long discussion, the few members who had not signed their postcards of assent did so, and Mr. Senior announced that every pharmacist in Scarborough and a large percentage in the North Riding of Yorkshire had decided to go on the panel. Messrs. Eyre, G. Whitfield, and Cross were appointed delegates to meet the North Riding Insurance Committee to discuss the tariff and any other arrangements for the administration of the pharmaceutical section of the medical benefit.

**Lanarkshire.**—Mr. Thomas Scott presided at a meeting of the Mid Lanark Pharmaceutical Association held in Motherwell on December 18. Thirty members were present. Much dissatisfaction was expressed at the ultimate outcome of the negotiations with the Insurance Commissioners; and a disinclination was shown by some present to go on the dispensing panel. These members were assured that if the terms offered were refused by pharmacists generally, the Commissioners have the power to divert the work into other channels; and that the proper policy is to accept the provisional agreements for three months, and see how the rates actually work out. After much discussion it was agreed to accept the tariff, and to thank the members on the Pharmaceutical Standing Committee for their services. An interim report from Mr. Walls, Convenor of the Tariff Committee, initiated a protracted discussion, after which it was resolved by a substantial majority that the Tariff Committee be instructed to accept nothing



less than Insurance tariff rates and dispensing-fees from interested parties."

**Fife.**—The chemists of Cowdenbeath, Lochgelly, Kelty, Bowhill, Newmills, Cardenden, and Leslie have unanimously agreed that a letter be sent to the Clerk to the County Insurance Committee, pointing out that the quality of drugs to be supplied to insured persons is in many cases far below that usually supplied, that the prices are often below cost prices, and that there is no indication as to how market fluctuations in prices would be met. Indignation was expressed at the action of the Pharmaceutical Standing Committee.—Kirkcaldy chemists intimated to the burgh Insurance Committee on December 20 that on the payment of quarterly accounts 10 per cent. is a fair proportion to be retained by the Committee. While accepting service for three months, they were of opinion that the prices were quite inadequate for the supply of the finest drugs. A discussion on this ensued, in the course of which Mr. John Peebles (chemist) stated that societies had been supplied with the same drugs as the best customers; while the Clerk said that Mr. Peebles and Mr. Stewart (chemist) had mentioned that many appliances were left out of the list supplied, and on inquiring whether other appliances outside the list must be paid for by the insured persons, the Commissioners answered in the affirmative. Mr. Peebles said the list had been cut down very much. A large number of appliances which are in daily use are not in the schedule. A great number of people would be very much disappointed that they would have to pay for many of the appliances that they expected to get free.

**Brighton.**—A meeting of the Brighton and Hove Association of Pharmacy was held at the Camera Club, Castle Square, on December 19, for the purpose of considering the dispensing tariff. Mr. W. H. Gibson was in the chair, and there were also present thirty-nine members and Mr. A. J. Franklin (Hon. Secretary). The President, opening the discussion, said that, although the prices on the tariff were not very remunerative, it was a great thing that dispensing has now been won for the chemists. Mr. A. J. Franklin stated that the Association has completed its jubilee, having been established in 1862. He pointed out that the chemists' panel was only a provisional one; it would extend to April 14. The following resolutions were passed for submission to the Medical Benefit Sub-committee:

1. That a minimum charge of 1d. be allowed for all articles not bearing a dispensing-fee.
2. That a minimum charge of 4d. be allowed on all prescriptions including a dispensing-fee.
3. That an extra fee of 2d. be charged on articles bearing no dispensing-fee and supplied between the hours of 9 P.M. and 11 P.M., and a charge of 3d. on such articles when supplied after 11 P.M. and before 8 A.M.
4. That an extra 50 per cent. be added to the dispensing-charges between the hours of 9 P.M. and 11 P.M. and 100 per cent. to be added to such charges between 11 P.M. and 8 A.M.

Councillor Yates urged all chemists to go upon the panel; and Councillor Black, who is a member of the Medical Benefit Sub-committee, pointed out that no alteration would be entertained in the income limit. He estimated that a profit of 10s. per week would be made by all those serving on the panel. [These resolutions were put before the Medical Benefit Sub-committee on December 20, and have been forwarded to the National Insurance Commissioners for approval.]

**Trowbridge.**—The Wiltshire County Pharmacists' Association, which now has thirty-eight members, met at Trowbridge Town Hall on December 18, when about twenty-eight members were present. The President (Mr. J. J. Shawyer) was congratulated upon his election to the mayoral chair for Swindon. The drug tariff as compiled by the Pharmaceutical Standing Committee on Insurance was fully discussed, and finally adopted. Reference was made to the Secretary's success in getting the County Insurance Committee to reconsider the supply of medicines for domiciliary patients receiving sanatorium benefit through the chemists on the panel, the result being the inclusion in the list of drugs of emulsion of cod-liver oil with hypophosphites, B.P.C., which is to be supplied at the rate of 1s. 6d. per pint. The question of charges for bottles was left open for further bargaining. It was decided that the Secretary, as a member of the County Insurance Committee, should endeavour to secure a charge of 2d. for each container of drugs included in the resolution. It was further reported that the Clerk to the County Insurance Committee had been instructed to write to the Insurance Commissioners to obtain their consent to the arrangement. A Pharmaceutical Insurance Committee was appointed, consisting of Messrs. J. J. Shawyer, J. H. Aplin, W. J. Green, and J. W. O. Whitley, and this committee conferred with the Medical Benefit Sub-committee of the County Insurance Committee on December 20. The drug tariff was accepted,

subject to the approval of the doctors, and the Insurance Sub-committee agreed to the following being printed upon the drug tariff, to be referred to in the agreement between each chemist and the Insurance Committee:

That an additional dispensing charge of 3d. be allowed for each prescription dispensed between the hours of 8 P.M. and 8 A.M. and on Sundays and Bank Holidays respectively.

The Secretary will send the amended drug tariff to each chemist upon the panel as soon as ready. Agreement forms, which should be signed across a sixpenny stamp, should be returned to the Hon. Secretary, Mr. J. Oliver, 40 Market Place, Devizes.

**Burton-on-Trent.**—Two representatives who attended the County meeting at Stafford on December 12 brought back the tariffs and other literature for distribution. These were in the hands of all eligible to go on the panel on December 13, and a meeting was held the same evening at Messrs. Hallam's to consider the questions involved. A further meeting was held on December 16, when all those willing to go on the panel (ten out of eleven firms in Burton) were present, and it was decided that all should meet the Insurance Committee at the Town Hall on Wednesday afternoon, December 18, Mr. Lean, of Francis Hallam, Ltd., being appointed spokesman. At the meeting with the Committee the tariff was put in as being proposed by the chemists as to be applicable to ordinary business hours, and double dispensing-fees were asked for work done outside those hours. The Committee asked the chemists to meet them with the doctors on December 20, when the hours and rates of payment would be settled. A further meeting was therefore held on that date with the doctors present, when the latter intimated that they had no observations to make on the tariff, which was understood by the Committee to mean that they agreed to it. As to the hours for dispensing for insured persons, the doctors pressed for an extension beyond ordinary business hours as at present existing, and the chemists agreed to the following: Each weekday (Sundays and Wednesdays excepted), 8 A.M. to 8 P.M.; Wednesdays, 8 A.M. to 1 P.M. and 7 P.M. to 8 P.M.; Sundays, 4 P.M. to 5 P.M.; Bank Holidays, same as Sundays. On the question of extra payment for work outside these hours being put forward, the Committee stated that no such work would be needed, the doctors being expected to supply any medicines, etc., needed urgently when chemists' shops are not open, and any medicines not required urgently would have to be obtained by the insured the next day. To this the doctors agreed, and the chemists who had been prepared to dispense medicines at all hours agreed also. Mr. Brook (County Insurance Inspector), who was present, acquiesced in the proposal, and there the matter stands. It remains to be seen whether the Commissioners will sanction it. Should dispensing at all hours be insisted on, the chemists will press for extra remuneration for night work. Objection to the application of two dispensers to go on the panel was made and favourably received by the Committee, as also was an objection to the approval of an institution where the conditions of the Act are not complied with as regards dispensing. The agreements with chemists are completed, subject as to the above reservation.

#### SPECIAL ORDER.

By notice in the "London Gazette" for December 20 the draft order under Section 47 of the National Insurance Act which refers, *inter alia*, to Messrs. S. Maw, Son & Sons, is withdrawn, and the draft of a new special order is published. The latter contains measures adapting other provisions of Part I. of the Act to the classes of employment included in Section 47 (*C. & D.*, December 14, index folio 878).

#### NOTICE CARD.

According to the revised regulations, persons undertaking the supply of drugs or appliances, or both, are required to exhibit the following notice in their places of business:

#### NATIONAL INSURANCE ACT.

(Name of person or firm contracting.)

Under contract with the Insurance Committee for the County [or County Borough] of . . .

To dispense medicines.

To supply drugs.

To supply drugs (except scheduled poisons).

To supply appliances.

We are having this notice printed on cards ready to hang up in the shop, and they can be obtained on application to the Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., at 4d. per copy, or 3s. 6d. per dozen post free.



## INSURANCE COMMITTEES.

Under the National Insurance Act there is in England and Wales an Insurance Committee for every county and county borough as defined by the Local Government Act, 1888, and in Scotland for every county and for every county burgh defined as a police or metropolitan burgh of 20,000 inhabitants or more on the last census, counting Dumfries and Maxwelltown as one county burgh. The following is a full list of counties and county boroughs in England and Wales and counties and county burghs in Scotland:

ENGLAND  
COUNTIES.

Bedfordshire	Lancashire	Salop
Berkshire	Leicestershire	Somerset
Buckinghamshire	Lincolnshire (Holland)	Southampton
Cambridgeshire	Lincolnshire (Kesteven)	Staffordshire
Cheshire	Lincolnshire (Lindsey)	Suffolk, East
Cornwall	London	Suffolk, West
Cumberland	Middlesex	Surrey
Derbyshire	Monmouthshire	Sussex, East
Devonshire	Norfolk	Sussex, West
Dorset	Northamptonshire	Warwickshire
Durham	Northumberland	Westmorland
Essex	Nottinghamshire	Wiltshire
Gloucestershire	Oxfordshire	Worcestershire
Herefordshire	Peterborough (Soke of)	Yorkshire (East Riding)
Hertfordshire	Rutlandshire	Yorkshire (North Riding)
Huntingdonshire		Yorkshire (West Riding)
Ile of Ely		
Ile of Wight		
Kent		

## COUNTY BOROUGHES.

Barrow	Gateshead	Preston
Bath	Gloucester	Reading
Birkenhead	Great Yarmouth	Rochdale
Birmingham	Grimsby	Rotherham
Blackburn	Halifax	St. Helens
Blackpool	Haarings	Salford
Bolton	Huddersfield	Sheffield
Bootle	Ipswich	Smethwick
Bournemouth	Kingston-on-Hull	Southampton
Bradford	Leeds	Southport
Brighton	Leicester	South Shields
Bristol	Lincoln	Stockport
Burnley	Liverpool	Stoke-on-Trent
Burton-on-Trent	Manchester	Sunderland
Bury	Middlesbrough	Tynemouth
Canterbury	Newcastle-on-Tyne	Waleall
Chester	Newport	Warrington
Coventry	Northampton	West Bromwich
Croydon	Norwich	West Ham
Derby	Nottingham	West Hartlepool
Devonport	Oldham	Wigan
Dudley	Oxford	Wolverhampton
Eastbourne	Plymouth	Worcester
Exeter	Portsmouth	York

WALES.  
COUNTIES.

Anglesey	Carmarvonshire	Merionethshire
Brecknockshire	Denbighshire	Montgomeryshire
Cardiganshire	Flintshire	Pembrokeshire
Carmarthenshire	Glamorgan	Radnorshire

## COUNTY BOROUGHES.

Cardiff	Merthyr Tydfil	Swansea
---------	----------------	---------

## SCOTLAND.

## COUNTIES.

Aberdeen	Elgin or Moray	Orkney
Argyll	Fife	Peebles
Ayr	Forfar	Perth
Banff	Haddington	Renfrew
Berwick	Inverness	Ross and Cromarty
Bute	Kincardine	Roxburgh
Caithness	Kinross	Selkirk
Clackmannan	Kirkcudbright	Shetland
Dumbarton	Lanark	Stirling
Dumfries	Linkithgow	Sutherland
Edinburgh	Nairn	Wigtown

## COUNTY BURGHES (population over 20,000).

Aberdeen	Edinburgh	Leith
Airdrie	Falkirk	Maxwelltown
Arbroath	Glasgow	Motherwell
Ayr	Govan	Paisley
Clydebank	Greenock	Partick
Coatbridge	Hamilton	Perth
Dumfries and Maxwelltown	Inverness	Rutherglen
Dundee	Kilmarnock	Stirling
	Kirkcaldy	Wishaw

## THE PANELS.

The Chancellor of the Exchequer is to address a meeting of the Advisory Committee on Thursday, January 2, 1913, by which time, it is expected, the various Committees throughout the country will have reported on the state of the medical and drug panels.

"J. A. F., Edinburgh, writing to "The Scotsman," says:

"A few days ago I was asked to furnish my attested signature, over a sixpenny stamp, in an agreement with the Mid-Lothian Insurance Committee for the supply of medicines, etc. I am now asked to repeat this formality for the Burgh of Edinburgh Committee, and am told that still another agreement will be required if I wish my name placed on the panel of Leith chemists. Now, I cannot understand why one agreement to serve under the Act should not suffice for any and every Committee. Further, I think that the expenses of such agreements should be shared equally by the contracting parties."

## THE MAN OF THE YEAR.

Had the subject of the sketch posed for his portrait the artist could not have caught him in more pensive mood. Nevertheless, it is the attitude in which William James Uglow Woolcock has been seen by thousands of pharmacists in England during the year that is closing. The expression is that which comes over his face when he is about to relate in chosen words and rounded periods nothing about something that diplomacy requires him to keep to himself.



MR. WOOLCOCK.

The portrait was sketched early in the year when as yet he was feeling his way with the Insurance Commissioners and the great gravity of the potentialities of the dispening problem lay heavy upon him.

The expression in fitting language of nothing about something was still a task, and the well-seasoned briar had to lie on the table while he said it with all the earnestness that accompanies astounding revelations. As an official worker, negotiator, conciliator, good fellow, Mr. Woolcock has easily been the most prominent man and the hardest worker in English pharmacy during 1912. He has brought to his duties the experience of an everyday pharmacist (Minor 1900, Major 1907), the acumen of a lawyer, and oratorical gifts of a son of the manse. The coming year may give him a further stiff proving, but he has hosts of older friends who will be with him for assistance and service whatever the tasks may be.

## DRUGS AND APPLIANCES.

We append an official explanation of the working of the provisions for drugs and appliances, especially as it affects the prescribing of the same, which has been prepared for the information of medical practitioners:

Under the Act the provision of drugs and appliances must ordinarily be carried out by chemists and other persons, firms, and bodies corporate, who undertake the provision on the terms offered by the Insurance Committee. Arrangements cannot be made with medical practitioners for this purpose except in such special cases as may be prescribed by the Regulations. The special cases are, firstly, cases, such as will occur in practice everywhere, in which a practitioner himself administers a remedy, as, for example, by hypodermic injection, or in which provision of medicine is required before it can be obtained from a chemist, as, for example, at a night visit or any other emergency; and, secondly, cases in which, on account of distance, patients would be put to exceptional inconvenience in obtaining medicine from chemists. This last group of cases is defined in the Regulations as including both all cases in which the insured person resides, in a rural area, at a distance of more than one mile from a chemist, and in other cases in which there are special difficulties of access by the patient to a chemist. Questions arising in relation to these exceptions will be determined in the first instance by the Insurance Committee, and in the last resort by the Commissioners.

In areas in which medicines are supplied by chemists they will be required to make such arrangements as will secure prompt and convenient supply of medicines to the



insured persons requiring them. The doctor's prescription will constitute also the order to the chemist for supplying medicine. The chemist in turn must produce it to the Insurance Committee, in due course, as a voucher, in order to obtain payment for the medicines which he has supplied. Special forms of prescription-book will be supplied to doctors, and will be so designed that the doctor can retain carbon duplicates of all his prescriptions. The prescription given to the patient must be taken by him to the chemist and left with the chemist. The patient will not be able to have his medicine repeated (at the expense of the Medical Benefit Fund) except as the doctor may order.

The Committee must prepare a list of drugs with prices, and in preparing this list they must consult the chemists on the one hand and the doctors on the other hand. Both are interested in the prices, because these will affect not only, as concerning the chemist, the payment which he is to receive for drugs supplied, but also, as concerning the doctors, the question of how much of the Drug Suspense Fund will be required for the provision of drugs, and how much will be available for medical remuneration.

The doctors are also concerned in determining what drugs shall be included in the list of those "ordinarily supplied." An insured person is entitled to obtain any medicine which the doctor attending him thinks necessary for his treatment. It would clearly be impracticable to prepare a comprehensive list including every drug which might in any circumstances be given by a doctor. It is proposed, therefore, that each Committee shall draw up a list of the drugs *ordinarily supplied*. These will be priced in the list. If a doctor desires to prescribe any drug not included in the list, he must do so in a special form. The use of the special forms will assist the general body of the doctors in checking any extravagance in prescribing on the part of one of their number.

The question what drugs should be included in the list of those "ordinarily supplied" is a matter for the doctors, chemists, and Insurance Committee of each area. It is possible, if thought fit, to include not only British Pharmacopœia preparations, but also any others that it may be thought desirable to include. In many public institutions it has been found convenient, with a view to saving time in prescribing and dispensing, and therefore with a view to economy, to adopt a list of formulæ for mixtures which are frequently used. This enables the doctor to write a single expression instead of a number of ingredients, and enables the dispenser to keep the mixture ready made up, thus saving expense in dispensing. It is possible for the doctors of any area to agree upon a number of such formulæ which the chemists would recognise and keep in stock, and which would be included in the local drug-list.

It is clear that both the Insurance Committee, the practitioners on the panel, and the chemists have interest in checking extravagance in the use of drugs. It is provided in the Regulations that the local Medical Committee shall be entrusted with the duty of watching this matter, and that the local Pharmaceutical Committee shall be able to make representations to them on the subject.

Each doctor in an area in which the ordinary supply of drugs is provided through chemists will render an account for drugs supplied in special circumstances by him, calculated on the same tariff as that on which the chemists are paid, and he will receive payment from the Drug Fund in the same way as the chemists. In a rural area, on the other hand, doctors will be paid, in respect of all those insured persons to whom, by arrangement with the Insurance Committee, they supply drugs, at the rate of 8s. 6d. per head per annum, for medical benefit, or, including the 6d. for tuberculosis, 9s. per head.

#### BRITISH MEDICAL ASSOCIATION.

A special meeting of the Representative Body of this Association was held at the Memorial Hall, Farringdon Street, London, on Saturday, December 21, at 10 A.M., Mr. T. Jenner Verrall, Chairman of the Representatives, presiding.

A report was presented showing that the voting in the meetings of divisions throughout the United Kingdom on the question:

"Are you in favour of the Association calling upon the profession to refuse to enter into any agreement with the local Insurance Committees to give service under the Act upon the terms and conditions now finally offered by the Government?"

was as follows:

Members voting against service .....	9,331
Non-members voting against service ...	1,888
Members voting for service .....	1,963
Non-members for service .....	445

After some discussion of the order of business the meeting debated a proposal to reaffirm the decision of last November, and eventually adopted the following resolution by a very large majority:

"That this representative body, having carefully considered the replies of the Chancellor of the Exchequer to the deputation appointed at the recent representative meeting to confer with him, is of opinion that the replies of the Chancellor do not remove the strong objection to the regulations and conditions of service determined on at the last representative meeting, and affirms the then expressed opinion that such are in the best interests of the public and profession unworkable and derogatory."

A motion in the following terms was then submitted:

"That the representative body rejects the proposals of the Government, and adheres to its previous decisions to decline service under the Act."

To this an amendment was moved to empower local Medical Committees to enter into negotiations for service on the panels, subject to the approval of the Council of the Association, provided that the Government gave an assurance that at the end of a year's trial of the Act full consideration would be given by some impartial committee, preferably a Select Committee of the House of Commons, to representations of the Association regarding any defects proved to exist in the medical arrangements.

This was debated at some length, and was supported by several speakers, but when put to the vote was lost by a large majority. After further debate the original motion was adopted by 182 to 21. The announcement was received with loud cheers.

#### ALTERNATIVE SCHEMES.

The meeting then proceeded to consider the future policy of the Association, and adopted the following resolution by a very large majority:

"That the Association advises the profession to express its willingness to treat insured persons on condition that each insured person shall have free choice of doctor, subject to the consent of the doctor to act; that where a capitation system is adopted the basis of remuneration shall be a minimum of 8s. 6d. per annum, inclusive of drugs; that where a system of payment by attendance is adopted, such payment shall be on a scale of fees to be drawn up by the local Medical Committees, subject to the approval of the Council of the Association, the minimum fee per visit being 2s. 6d.; that the general arrangements be made between the insured or their representatives and a committee of local doctors, and that all other details be left to the doctors of the local areas affected; that this arrangement be carried on until such time as the profession adopts some uniform scheme. The arrangement of a minimum basis of remuneration is not considered to include the treatment of tuberculosis."

The conference approved a scheme adopted by St. Bartholomew's Hospital, London, with regard to persons presenting themselves for treatment at that hospital after January 15, 1913, whereby all persons applying for treatment will be required to state whether they are insured persons or not, and insured persons with small ailments will not be treated at the hospital.

The meeting was resumed on Monday, Mr. Verrall again presiding, when it was decided to issue an appeal to the profession embodying the resolutions arrived at. In the course of the meeting several members of the minority explained their position. The meeting lasted for four hours, and the close was marked by scenes of enthusiasm, the doctors cheering, applauding vigorously, waving their hats and singing "For he's a jolly good fellow," in honour of the Chairman.

The following members of the Council of the Association have resigned:

J. Grant Andrew, M.B., C.M., Glasgow, President-Elect, Glasgow and West of Scotland branch.

R. C. Buist, M.D., M.R.C.P., Dundee, Chairman of Journal Committee.

A. C. Farquharson, M.D., B.Sc., Durham Member of Central Ethical and Public Health Committees.

C. E. S. Flemming, M.R.C.S., L.R.C.P., Bradford-on-Avon, Chairman of the Medico-Political Committee.

Ewen J. Maclean, M.D., M.R.C.P., Cardiff, ex-Chairman of Representative Meetings.

Lauriston E. Shaw, M.D., F.R.C.P., London, Chairman of Central Ethical Committee.



The reasons which they give are in brief: (1) they cannot accept any responsibility for the decision now arrived at, (2) the alternative policy is diametrically opposed in principle to one of the cardinal points of the Association's original policy, and (3) it holds members of the profession bound by their original undertaking and pledges.

#### THE PLEDGE.

The "British Medical Journal" reprints the following undertaking, which was signed by 27,400 medical practitioners in the United Kingdom earlier in the year:

#### Undertaking.

"I, the undersigned, hereby undertake that in the event of the National Insurance Bill becoming law, I will not enter into any agreement for giving medical attendance and treatment to persons insured under the Bill, excepting such as shall be satisfactory to the medical profession and in accordance with the declared policy of the British Medical Association; and that I will enter into such agreement only through a local Medical Committee, representative of the medical profession in the district in which I practise, and will not enter into any individual or separate agreement with any approved society or other body for the treatment of such persons."

*The Pledge Complementary to the Undertaking* was in the following terms:

In view of the possibility of Medical Benefit under the National Insurance Act being suspended or of an attempt being made to administer it through the approved societies or in other way contrary to the wishes of the profession, I make the following declaration:

I, the undersigned, hereby place in the hands of the Secretary of the Provisional Medical Committee of the area in which I practise, my resignation of all club, friendly society, dispensary, and other forms of contributory contract practice appointments which I hold, in so far as they extend to insured persons, and I authorise him to send these resignations to the bodies concerned, if and when he is called upon by the State Sickness Insurance Committee of the British Medical Association to do so.

I undertake not to accept any such appointment so resigned; and that I will only accept appointments dealing with insured persons with the consent of the State Sickness Insurance Committee, given through the Provisional Medical Committee, and on conditions which shall allow of free choice of doctor by patient and of patient by doctor.

After that portion of the National Insurance Act, referring to Medical Benefit, comes into operation, and until the terms and conditions of administering Medical Benefit under the National Insurance Act have been approved by the profession, (1) I will not, except in cases of urgent necessity, render professional service to an insured person through the service of any voluntary medical charity; (2) I will not co-operate with any member of the profession who is under contract to render service to insured persons upon terms which are not approved by the profession.

It is urged on behalf of those who want to work the Act that the terms demanded at the time that they signed it have been more than satisfied in the Act and regulations as revised. Further, that the demands now made by the Association are new and not binding upon the signatories. On the other hand, it is urged that the terms of the undertaking and pledge leave no loophole for escape.

The places in which majorities of the doctors who voted are in favour of working the Act were Orkney, Bromsgrove, Dudley, Walsall, Dundee, Ayrshire, Derby, Blyth, Durham, Gateshead, South Camarvon and Merioneth, Maidenhead, Buckingham, Monmouthshire, and Stirling. The voting of the Irish branches of the Association is included in the totals, although there is no medical benefit in Ireland.

#### GOVERNMENT'S DECISION.

With reference to the Association's resolution relating to arrangements for Medical Benefit being made otherwise than with the Insurance Committees, the Government will not accede to any such proposals in regard to Medical Benefit which would involve the expenditure of public money without adequate public control; further, they could not sanction any arrangements which conflict with

this fundamental principle. The Insurance Committees are proceeding with their arrangements for the formation of panels and with the approval of institutions. In the event of these being inadequate in any area, other provision will be made for giving Medical Benefit to all insured persons who require it as from January 15.

#### "EIGHT AND SIXPENCE INCLUSIVE OF MEDICINES."

The independent service which the British Medical Association proposes to set up for insured persons is the same as was referred to in the *C. & D.* a month or two ago. It follows Insurance Act lines, but keeps the control in the hands of medical men solely, and violates the regulations of the Act by insisting on the supply of drugs. The obstinacy with which the Association adheres to this last demand is not surprising from one point of view; but it shows how slow the Association's representatives are to realise that the revised regulations of the Insurance Act cannot be used to pay doctors for drugs. Of course, there is nothing to prevent insured persons paying doctors not on the panel for drugs they may get from them if the Insurance Committees agree.

#### MATERNITY BENEFIT.

Mr. J. F. L. Brunner, M.P. for Northwich, has intimated that he will give a silver cup to the child first born in his constituency on January 15, 1913, whose mother gets maternity benefit under the National Insurance Act, and Mrs. Brunner will give the second born child a christening robe. "If the first is twins?" exclaimed the voice at the meeting addressed by Mr. Brunner. "Then there will be two cups," he promptly replied. No one had the presence of mind to claim for the second expected twin Mrs. Brunner's christening robe.

## COMING EVENTS.

This section of the "*C. & D.*" is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

#### Tuesday, December 31.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 3 P.M. Professor Sir James Dewar on "Atoms." Other lectures of the series will be given on January 2 and 4.

#### Thursday, January 2, 1913.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 P.M. Meeting.

CHEMISTS' BALL (forty-seventh annual) will be held on January 15 at the Whitehall Rooms, Hôtel Métropole, London, S.W. Tickets (lady's 12s. 6d., gentleman's 17s. 6d.) from Mr. Alan Francis, 22 to 30 Graham Street, City Road, London, N.

THE SOUTH OF ENGLAND COLLEGE OF PHARMACY DINNER will be held in the Venetian Chamber of the Holborn Restaurant on January 8, 1913. Mr. John C. Umney, F.C.S., President of the British Pharmaceutical Conference, has promised to take the chair.

THE MONETARY UNIT IN PORTUGAL has been changed from milreis to escudo. The latter has the same value as the milreis and is divided into 100 centavos, while the milreis represents 1,000 reis; hence 1 centavo is equivalent to 10 reis.

THE USE OF LEAD-PAINTS.—The danger of lead-poisoning through the use of red and white lead and of so-called lead-paints was made the subject of an inquiry by a Committee appointed by the Home Office some time ago. Manufacturers complain that they have not been given an opportunity to make their voice heard in the matter, and that an inquiry into this question should be of an impartial character, and not be left almost entirely in the hands of people whose efforts have been from the outset directed towards finding evidences and arguments favouring a prohibition of the use of lead-paints. The attempts which have been made by home manufacturers to induce the Committee of Inquiry to allow foreign trade experts to express their views on the subject have been apparently disregarded by the Committee. Should the proposed measures now discussed be eventually adopted, this would, of course, not stop manufacturers' operations, but they would then be entirely dependent upon the export trade for selling their products.



## POISONING FATALITIES.

EIGHT deaths from the effects of taking poison have been reported since our last issue up to Tuesday night.

**Carbolic Acid.**—Eliza Skitt (32), wife of Edgar Skitt, of the Crosswell Arms, Newcastle Street, Burslem, licensed victualler, committed suicide with this poison.

**Morphine** in accidental overdose caused the deaths, in the London Temperance Hotel, of Dr. Harry Victor Walker, formerly of Camden Town, London, N.W., and Edward Deville (35), of Soho, London, W.

**Opium.**—At a Grantham inquest on the four-year-old son of a labourer named Short, the evidence showed that the child drank during the night the contents of two bottles of medicine, nearly full, which had been left on a chest of drawers. Dr. Ayres said the child had consumed three-quarters of a grain of opium. The child's mixture contained paregoric, and was pleasant to taste.

**Oralic Acid.**—Albert Raab (25), who had been arrested on a charge of forgery, poisoned himself with this chemical in a cell at the Brixton Police Station. He had secreted the poison in his boot.

**Prussic Acid.**—At the inquiry into the death of Owen Glynne Pughe (34), chemist's assistant, who was found dead from prussic-acid poisoning on a footpath near Colwyn Bay, Mr. Rice O. Pughe, chemist and druggist, Llanfairfechan, father of the deceased, stated that the bottle of prussic acid produced had been taken from his pharmacy. It appears that the deceased had been out of employment for six weeks. Mr. John L. Hunt, Ph.C., Conway Road, Colwyn Bay, said deceased gave every satisfaction while in his employ, but witness had on several occasions to complain of his intemperate habits, and he finally paid him off.

**Salt of Lemon** was used for suicidal purposes by Ellen Beckett (43), school-curator's wife, Erskine Hill, Hendon.

**Feronal.**—Frank Stolley Vine (51), confectioner, Cowes (I.W.), died from an accidental overdose of this hypnotic.

## TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," December 1, 1912.)

Device of negro's head and words "DENTALIT" and E. F. Lindenberg, Riga; for dental compositions (11). By E. F. Lindenberg, Kalnezeemsche Strasse 20, Riga. 345,945.

"SEN-SEN"; for cachous and chewing-gum (42). By Sen-Sen Chiclet Co., 285 Fore Street, Portland, Maine, U.S.A. 346,030.

"DANDOCK"; for aerated beverages (44). By Clayton & Jowett, Ltd., 5 Concert Street, Liverpool. 344,124.

Label device including ace of spades and words "DENTIFRICE, D.P.M." ("D.P.M." disclaimed); for dentifrices (48). By E. Claessens, 3 Rue des Vanniers, Brussels. 344,280.

"HARFINA"; for all goods (48). By Philo Hay Specialities Co., 30 Clinton Street, Newark, N.J., U.S.A. 345,526.

"LUSYL"; for perfumery, etc. (48). By L. Sealey, 45 Upper Marylebone Street, London. 346,089.

"HUTAX"; for dentifrices (48). By A. J. McDonagh, 2 Bloor Street East, Toronto, Canada. 346,464.

(From the "Trade-marks Journal," December 11, 1912.)

"DORIFORM"; for antiseptic preparations (2). By Chemische Fabrik von Heyden A.G., 103 Leipzigerstrasse, Radbeul, near Dresden. 344,313.

"PESTOIDS"; for insect-destroyers (2). By J. H. Wilson, 249 Portland Road, South Norwood, London, S.E. 345,494.

"FRESHLETS"; for all goods (2). By A. J. Murphy, 3 and 4 Queen's Square, Leeds. 346,616.

Heraldic device with words "COOPER" and "I UNDERTAKE AND I PERFORM"; for veterinary chemicals (2). By W. Cooper & Nephews, Berkhamsted. 346,673.

"PHYLACOGEN," for all goods (2 and 11); "QUIREADINE," for all goods (3). By Parke, Davis & Co., 50-54 Beak Street, London, W. 346,739/40/41.

"VETALENTA"; for an animal-medicine (2). By Day, Son & Hewitt, 22 Dorset Street, London, W. 346,750.

"AGRI-FERT" and "TILLATE"; for all goods (2). By Anglo-Continental Fertilisers Syndicate, Ltd., 1 Broad Street Place, London, E.C. 347,068, 347,070.

"PINEX"; for medicinal chemicals (3). By the Pinex Co., Ltd., 36 Upper Thames Street, London, E.C. 345,615.

"TA-O"; for medicated chocolate (3). By F. G. Lecomte, 19 Gerrard Street, London, W. 346,501.

Words "WAL" and "DRON" on wall with man between; for pile-pills (3). By R. Waldron & Son, 13 Jackson Road, Birmingham. 345,954.

"NINHYDRIN"; for all goods (3). By Meister, Lucius & Brüning, Hoechst a/Main. 346,068.

"FILM," "YOHMURA," and device of woman's head with letters "S.C.C."; for pharmaceutical goods (3). By the Strand Chemical Co., 22 Ely Place, London, E.C. 346,108/109/187.

"POLYPIN"; for all goods (3). By A. Schmieder, 10 Theresienstrasse, Dresden. 346,134.

Label including words "OVAMAMMOID COMPOUND," facsimile signature, and formula; for a medicine (3). By British Organotherapy Co., Ltd., Carlton House, Lower Regent Street, London, S.W. 346,373.

"ROCTOCO"; for a local anæsthetic (3). By Roctoc, Tompsett & Co., 4 Red Cross Street, London. 346,233.

"ARSABON"; for all goods (3). By C. F. Boehringer & Soehne, Mannheim-Waldhof. 346,409.

"UNORO"; for health-salt (3). By R. Greer, 54 Victoria Street, Manchester. 346,537.

"FERROTUBAN"; for all goods (3). By Society of Chemical Industry in Basle, Basle. 346,555.

"EPSOLOIDS"; for all goods (3). By J. Hutchison, 35 Jeffrey Street, Edinburgh. 346,707.

"KROL"; for medicinal chemicals (3). By Reynolds & Branson, Ltd., Leeds. 346,745.

"PROSTHÉNASE"; for a pharmaceutical preparation (3). By A. Galbrun et Fils, 18 Rue Oberkampf, Paris. 346,999.

"ATRALINE"; for marking-ink (39). By McCaw, Stevenson & Orr, Ltd., 31 Shoe Lane, London, E.C. 346,671.

"PARTOX"; for photographic papers and postcards (39). By L. Gevaert & Co., 23 Septe Straat, Antwerp. 346,777.

"ECLIPSE"; for photographic papers (39). By A. E. Malandain, 51 Cheapside, London, E.C. 346,826.

"CYRANO" and "CIO-SAN"; for goods (47 and 48). By The Erasmic Co., Ltd., Bank Quay, Warrington. 346,415/422/341/342.

"CEAD MILE FAITHÉ" and "MAVOURNEEN"; for Irish perfumery, etc. (48). By J. Barrington & Sons, Ltd., 202 Great Britain Street, Dublin. 345,585/969.

"VANICA"; for all goods (48). By Vanity Products Co., 208 Amyand Park Road, St. Margarets. 346,221.

"PLANET"; for perfumed soap (48). By Palmer & Co., Ltd., Stratford, E. 346,528.

"PETRESOL"; for a hair-lotion (48). By To-Kalon Mfg. Co., Ltd., 212 Great Portland Street, London, W. 347,079.

(From the "Trade-marks Journal," December 18, 1912.)

"FOGAS"; for photographic goods (1 and 39). By Chemische Fabrik auf Actien (vorm. E. Schering), 170 Müllerstrasse, Berlin. 345,576/7.

"GREENOID"; for chemicals (2). By Howards & Sons, Ltd., Stratford, London, E. 347,175.

Red and white device of triangle, and words "NULLI SECUNDUS" ("Nulli Secundis" disclaimed); for cattle medicines (2). By A. Hedges & Co., Stoke Mandeville, Bucks. 345,179.

"AEROPINE"; for medicinal tablets (3). By the Standard Tablet and Pill Co., Ltd., 2 Hove Park Villas, Hove, Sussex. 345,291.

"METAFFERIN" and "METAFFERROSE"; for medicinal chemicals (3). By Dr. W. Wolff & Co., G.m.b.h., Simonstrasse, 112, Elberfeld. 345,595/6.

"SCHOPED" and "SOLACE"; for foot-arch supports (11). By the Scholl Mfg. Co., Ltd., 1-4 Giltspur Street, London, E.C. 346,643/4.

"PASCOE"; for a protein food-substance (42). By S. A. Vasey, "Beechcroft," Burnt Ash Lane, Bromley, Kent. 343,037.

"DIAPHAT"; for food-substances (42). By Caecream, Ltd., 32 Great Tower Street, London, E.C. 347,061.



- "BLISS": for goods (47), and for perfumery, etc. (48). By Lever Bros., Ltd., Port Sunlight, Cheshire. 347,206/7.
- "SALUT D'AMOUR": for perfumery, etc. (48). By H. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London, W. 346,218.
- "GLADOLA": for all goods (48). By Adola, Ltd., 21 South Molton Street, London, W. 346,229.
- "HAPPINESS": for perfumery, etc. (48). By A. Finlay, Ltd., Victoria Square, Belfast. 346,266.
- "DENTABS": for a mouth-wash (48). By the British Medical Toilet Co., Ltd., 33 Chancery Lane, London, W.C. 346,881.
- "HERALD": for perfumery, etc. (48). By D. & W. Gibbs, Ltd., Wapping, London, E. 347,279.

## PATENT SPECIFICATIONS.

Printed copies of the following specifications are on sale (8d. each) at the Patent Office, 25 Southampton Buildings, London, W.C., a fortnight after the notice of acceptance has appeared in the "Official Journal" (Patents) of the given dates. Persons desirous of opposing the grant of a patent must do so in the prescribed form within two months from the date of the "Journal" in which the notice appeared.

### Specifications Accepted.

*November 6, 1912.*

- CLEANING SILVER ARTICLES. 17150/11. Rosenberg.
- LIGHT-MEASURING DEVICE. 23429/11. Sanger-Shepherd.
- SYRINGES FOR DENTAL INJECTIONS. 24288/11. Dental Manufacturing Co. and Pearson.
- CONTAINER FOR SOLIDS AND POWDERS. 25571/11. Kelly.
- PROCESS FOR PRODUCING PRECIOUS METALS. 28595/11. Bloxam. (Verley.)
- TREATING FERRUGINOUS ALUMINIUM SULPHATE. 29283/11. Eschellmann and Ges. der Tentelew Schen Chemischen Fabrik.
- MACHINE FOR CAPSULING BOTTLES. 8187/12. Rosengren.
- PROCESS FOR THE PREPARATION OF NICOTINE. 11758/12. Halle.
- METHYLSULPHITES OF AMINO-ANTIPYRINE AND DERIVATIVES OF AMINO-ANTIPYRINE SUBSTITUTED IN THE PHENYL NUCLEUS. 15658/12. Farbwerke vorm. Meister, Lucius & Brüning.
- MANUFACTURE OF MERCURY BICHLORIDE. 19601/12. Käufer, Klages and Saccharin Fabrik.
- MANUFACTURE OF CAMPHORATES OF HEXAMETHYLENETETRAMINE. 21723/12. Farbwerke vorm. Meister, Lucius & Brüning.

*November 13, 1912.*

- TREATMENT OF IRON TO PREVENT RUSTING. 17563/11. Richards.
- MANUFACTURING ABSORBENT BANDAGING MATERIAL. 17873/11. Marcus.
- NEW SOLUBLE CASEIN COMPOUND. 24662/11. Revis, Bolton & Bacon.
- MANUFACTURE OF GLUE. 24691/11. Heide. (Perkins Glue Co.)
- PREPARATION OF MONOCHLORHYDRIN. 26036/11. Sprengstoffwerke Dr. R. Nahnson & Co.
- SPLITTING FATS INTO GLYCERIN AND FATTY ACIDS. 27244/11. Petrow.
- MANUFACTURE OF NORMAL ESTERS OF PHOSPHORIC ACID FROM PHENOLS OR NAPHTHOLS. 1154/12. Bloxam. (Akt.-Ges. für Anilin Fabrikation.)
- APPARATUS FOR DIPPING SHEEP. 5248/12. Rennix.
- PREPARATION OF PAINTS. 10958/12. Petersen.
- TOOTH-BRUSH. 16518/12. Sarrazin.
- PAD FOR PRODUCING GLOSS ON ANIMALS AND FOR POLISHING LEATHER. 18200/12. Purvis.

*November 20, 1912.*

- SOLIDIFICATION OF HYDROCARBON OILS. 18300/11. Armstrong & Mordan.
- HYDROGENATION OF FATTY ACIDS. 25320/11. Wimmer & Higgins.
- MANUFACTURE OF ALKALI AMIDE. 25891/11. Ellis. (Chemische Fabrik von Heyden Akt.-Ges.)
- MANUFACTURING OPTICAL MIRRORS. 28241/11. Richardson.
- PROJECTION OF IMAGES OF OPAQUE BODIES. 259/12. Lake. (Benaglia et Cie.)
- HYDROGEN FREE FROM CARBON MONOXIDE. 1759/12. Johnson. (Badische Anilin- und Soda-Fabrik.)
- ARC LAMPS FOR OPTICAL LANTERNS. 4431/12. Branson.
- MEDICAL AND SURGICAL SYRINGES. 5503/12. Anderson.

*November 27, 1912.*

- COD-LIVER OIL PREPARATIONS. 20928/11. Weiss.
- OILS AND PIGMENTS. 24961/11. Enequist.

- SOLVENTS FOR CELLULOSE. 25532/11. Knecht, Perl, and Peter Spence & Sons.
- PRODUCING DIGESTIVE FERMENT. 25879/11. Yenjo.
- MANUFACTURE OF 1,3 BUTADIENE. 27387/11. Johnson. (Badische Anilin- und Soda-Fabrik.)
- SURGICAL TRUSSES. 27420/11. Smith.
- PREPARING A REFINED EXTRACT OF CASCARA SAGRADA. 2161/12. Diefenbach.
- PRODUCTION OF CREAM OF TARTAR AND OTHER TARTARIC PRODUCTS. 5759/12. Cornette & Fauchaux.
- MANUFACTURE OF NITRIDES AND AMMONIA FROM NITROGEN. 5795/12. Soc. Générale des Nitrures.
- STETHOSCOPES AND THE LIKE. 6879/12. Arnold.
- CAOUTCHOUC-LIKE SUBSTANCE. 8065/12. Newton. (Farbenfabriken vorm. F. Bayer & Co.)
- WASHABLE WATER PAINT. 9764/12. Jamson.
- OBTAINING CERESIN FROM MINERAL-OIL RESIDUES. 10256/12. Mijs.
- MANUFACTURE OF SULPHURIC ACID. 13175/12. Moritz.
- RECOVERY OF CARBON BISULPHIDE. 15777/12. Illingworth and Gas Lighting Improvement Co.
- INFANTS' SOOTHER. 20508/12. Teitz.

### Open for Inspection.

- MANUFACTURING BAKING-POWDER. 14670/12. Diamalt Akt.-Ges.
- MANUFACTURE OF HOMOLOGUES OF METHYL-SULPHITES OF AMINO-ANTIPYRINE. 15755/12. Farbwerke vorm. Meister, Lucius & Brüning.
- MANUFACTURE OF HYDROGEN FROM METALS AND WATER. 19002/12. Bergius.
- INSECTICIDE. 19688/12. Akt.-Ges. für Anilin Fabrikation.
- PRODUCING SOLUBLE POTASSIUM COMPOUNDS OUT OF FELSPAR. 23898/12. Lindblad.
- HYDROGENATING FATTY MATERIALS. 24084/12. Ellis.
- X-RAY APPARATUS. 24046/12. Snook & Kelly.
- APPARATUS FOR STERILISING WATER. 24623/12. Von Recklinghausen, Hellbronner & Henri.
- CAOUTCHOUC-LIKE SUBSTANCE. 24637/12. Farbenfabriken vorm. F. Bayer & Co.
- MANUFACTURE OF SERUM AGAINST DISTEMPER IN DOGS. 18374/12. Von Wunschein.
- MANUFACTURE OF HEXAMETHYLENETETRAMINE SALTS OF THE  $\alpha$ -PHENYL-QUINOLINE- $\gamma$ -CARBOXYLIC ACIDS. 23365/12. Farbwerke vorm. Meister, Lucius & Brüning.
- TREATMENT OF PHOSPHATE OF LIME. 8608/12. Ciselet & Noblet.
- CLOSING FOIL-CAPSULES ON BOTTLES. 10357/12. Lawrence.
- MANUFACTURE OF DINITRO-PHENYL-ARSINIC ACID. 24667/12. Farbwerke vorm. Meister, Lucius & Brüning.
- MANUFACTURE OF NITRO-AMINO-PHENYL-ARSINIC ACID. 24668/12. Farbwerke vorm. Meister, Lucius & Brüning.

## BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MESSRS. J. M. STEEL & Co., chemical merchants, have removed to 3 Thames House, Queen Street Place, London, E.C.

MR. E. H. WISEMAN, chemist and druggist, late of Weymouth, is opening a business at The Square, Westbourne, Sussex.

MR. P. BARRS, pharmacist, has purchased the business of Mr. D. Ll. Evans at 106 Church Street, Campden Hill, Kensington, London, W.

MESSRS. WILLIAM LAIDLAW & Co., LTD., import and export merchants, have removed to Crosby Buildings, Crosby Square, London, E.C.

MR. EDWARD CLEAVER, import agent, is removing on December 31 from 39 Great Portland Street, London, W., to 13 Clerkenwell Road, E.C.

BOOTS, LTD., are to erect a handsome block of new retail business premises at the corner of Carrington Street and Canal Street, Nottingham.

MR. W. KESTERTON, chemist and druggist, 155 Duke Street, St. Helens, Lancs, has opened a branch business at 181 Cambridge Road, in the same town.

MESSRS. FELTON & CREPIN have removed to 15 Cooper's Row, Tower, London, E.C., the Port of London Authority having acquired their lease in Savage Gardens.

MESSRS. WILLIAM LAIDLAW & Co., LTD., import and export merchants, have removed to more commodious premises at Crosby Buildings, Crosby Square, London, E.C.



## The Shops Act, 1912.

**Enfield.**—The Urban Council on December 20 issued a draft order for closing by chemists on the weekly half-holiday as follows: Bush Hill Park, Chase and Bulls Cross, Ordnance and Green Street, and Ponders End Wards (the latter north of Enfield Highway Police Station), Wednesdays at 1 P.M.; Green Street and Ponders End Ward (south of Enfield Highway Police Station), Thursdays at 1 P.M.

**Huntingdon.**—Only one chemist voted in favour of Wednesday as the early-closing day. Consequently no order for closing by chemists will be made.

**London.**—The Public Control Committee reported to the meeting of the London County Council on December 17 that fifty-eight trade organisations had replied to their invitation to submit suggestions for defining areas in London for the purposes of orders. Of these eighteen offered no suggestions; nine (including pharmacists) are in favour of no subdivision of the county; and thirty-one favour subdivision. Eight organisations, including Strand and Holborn chemists and chemists' assistants, favour a central area (for purposes of exemption) on the north side of the River Thames. The Council agreed to the recommendation of the committee that orders shall apply to any one or more of the under-mentioned areas (save that as regards exemption orders other areas may be agreed to in very exceptional cases):

(i.) The County of London (exclusive of the City of London).  
(ii.) A central area north of the River Thames, bounded as follows, the shops in the boundary thoroughfares named being included in the area:

**East.**—The boundary of the City of London (from the River Thames to Holborn) and thence along Gray's Inn Road to King's Cross.

**North.**—From King's Cross via Euston Road, Marylebone Road, and Chapel Street, to Edgware Road.

**West.**—From Chapel Street, via Edgware Road, Park Lane, Grosvenor Gardens, Buckingham Palace Road, and Commercial Road to Chelsea Bridge.

**South.**—The River Thames.

(iii.) A northern area comprising the portion of the County of London (exclusive of the City of London) north of the River Thames, with the exception of the central area mentioned in (ii.) above.

(iv.) A southern area comprising the portion of the County of London (exclusive of the City of London) south of the River Thames. The second area includes most of the large railway termini, "theatre-land," and the main shopping thoroughfares, in which the committee considers tradesmen might reasonably claim exceptional treatment. The Council suggests that Thursday be the early-closing day (other than Saturday) both north and south of the Thames, and is taking informal preliminary steps to ascertain the views of shopkeepers in this matter.

## Coffee in Kensington.

THIS is a true story, and concerns two chemists. One came from the Sunny South and the other came from the West, and we foregathered in Kensington and shared rooms together just off the High Street. We had had a variety of situations, but never one in London, and so we came to town to get that West-end experience which is supposed to be necessary to the education of the Perfect Pharmacist. Two historic houses offered us facilities for gaining this experience, and Kensington High Street was as the equator between the two establishments.

From 8 A.M. to 11 P.M. seemed to constitute our day's work, and we found that Art was very long and Time was always fleeting. Our rooms were modest and our meals were plain, and we lived on less than a pound a week each in fat and wealthy Kensington. Stern necessity drove us to save as much money as we could, and we were glad to be unknown because of our economies.

We learned to breakfast off bread and bloaters, and could lay out nippence on a three-course dinner in a manner truly surprising. But supper was the meal we most enjoyed, for we had it together when we both got home at night. The landlady found the milk, and we provided the rest, and we made the coffee over a methylated-spirit lamp, and we drank each night to the dawn of our deliverance, and cursed the day we ever came to London.

The life of the ordinary chemist's assistant in the West-end is not worth living. Business hours are unreasonably long, and he has not time for healthy recreation. The salary he gets is a very inadequate remuneration for the life of slavery he leads. He works from morn to dewy eve to earn whatever he can, and if he wants to save money he must deny himself all save bare necessities.

We endured this sort of life for nearly three months, and

at last it became unbearable, and upon one memorable bread-and-bloater festival it was unanimously decided that we should get *THE CHEMIST AND DRUGGIST* and see if there were any businesses to be sold cheap. Not that we had any money to speak of, but that was quite another story. We sent 10s. that day to 42 Cannon Street, and on the following Friday received our first copy of the paper, and in that very first number we found the particulars of the business in which we are now together as partners.

That is just three years ago, and we haven't got any more money now, but at least we are "on our own," which is worth a very great deal; and I am perfectly certain that neither all the king's horses nor all the king's men, nor even the Insurance Act, will ever induce us to go back to Coffee in Kensington.—*Autolytus* (145/50).

## FESTIVITIES.

### Whist-drive.

ON Friday evening last the first social of the session of the Harrogate Pharmaceutical Association was held at the Imperial Café, Parliament Street, and a thoroughly enjoyable and successful gathering it proved. The President and Mrs. Ridge received the guests at 8.30 P.M., and twenty-four rounds of whist were played. The result was as follows: *Ladies' prizes*—(1) Miss Hindell, (2) Miss Webster, and (3) Mrs. Fenn. *Gentlemen's prizes*—(1) Mr. C. B. Southwell, (2) Mr. Cross, and (3) Mr. Wake. Two special prizes, given by the President and Mrs. Ridge, were won by Miss Southwell and Mr. W. Simpson.

### Sangers' Staff Dines.

THE staff of Messrs. Sangers, Euston Road, druggists' sundriesmen, held their seventh annual dinner at Reggiori's Restaurant, King's Cross, London, N., on December 21, about one hundred male employes of the firm sitting down to an excellent dinner. Mr. F. J. Smith, who occupied the chair, was supported by Messrs. H. Sanger, E. Sanger, D. F. Smith, S. H. Carr, and H. F. Smith. The artistes who rendered the items in the concert following the dinner were mainly employes of the firm, and included Misses Florence and Rita O'Shea, Messrs. Aires, T. H. Carr, Collinson, Palmer, Milner, Young, Vause, Howick, Craske, Brown, Redgell, and Chandler. Mr. D. J. Thomas accompanied at the piano. The toast of "The Firm" was wittily proposed by Mr. Paylor (warehouse department). Mr. F. J. Smith, in replying, thanked the staff for their loyalty in the past, and assured them that while they studied the firm, the firm in turn would study them.

### Assistants' Smoker.

THE Christmas smoking-concert of the Chemists' Assistants' Association, held at 73 Newman Street, London, W., on December 19, easily constituted a record both as regards attendance and quality of programme. Mr. A. R. Arrow-smith occupied the chair. Songs were given by Mr. W. Aspinell, of the Guildhall School of Music, and Messrs. Bullock, Milner, F. J. Davy, Royle, H. Grange, and H. B. Everson. The elocutionists were Messrs. R. E. Lowms brought and G. E. Williams. Mr. Harry Hall's description of "Levinsky's Wedding" convulsed the audience, while Mr. J. G. Jones also contributed to the humorous side of the entertainment. A novel item was a musical monologue by the President, descriptive of the history and aims of the C.A.A. This was set to the music of a well-known air. Refreshments were served during the interval, and a collection for the Benevolent Fund realised 11. 12s. A hearty vote of thanks to the Chairman was moved by the President, and was seconded by Mr. J. Austin Thomas, President of the Pharmaceutical Society of the Cape Province. Mr. Thomas, who was given a very cordial welcome, said he was glad to note the healthy tone which existed in the Association. He said that he was instructed to convey to the meeting a message of "goodwill and best wishes" from the Cape Pharmaceutical Society. It would be a source of gratification to him on his return to report the delivery of the message, and to record the enthusiastic welcome he had received.

MR. F. LAWSON DODD, M.R.C.S., L.R.C.P., has written a tract entitled "A National Medical Service," which is published at 2d. by the Fabian Society, 3 Clement's Inn, London, W.C. It outlines a scheme for a complete State Health Service, under a Health Department of the Central Government, by which the whole medical system, at present in a chaos, would be unified and co-ordinated.



## TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

### 42 Cannon Street, London, E.C., December 24.

THE markets are now practically closed for the Christmas holidays, and it is not likely there will be any changes of importance in prices until January. The few alterations which have occurred include an advance in ammonia sulphate and paraffin wax. Copper sulphate, milk-sugar, insect-flowers, turpentine, and rosin are cheaper. Messina products, such as lemon and orange oils, are very firm. Menthol is nominal on spot, but a fair business has been done to arrive. Cream of tartar is easier inclined. Opium is also on the easier side, with fairly heavy arrivals from primary markets. Quicksilver is steady in second-hands. Sandalwood and clove oils are very firm.

**ALOES.**—The exports from the Union of South Africa during October 1912 amount to 115,771 lb., valued at 1,264*l.*, against 84,082 lb., valued at 811*l.*, in October 1911. During the ten months ending October 31 the exports were 686,389 lb., valued at 7,188*l.*, against 666,199 lb., valued at 6,611*l.*

**AMMONIA SULPHATE.**—Beckton prompt 25 per cent. is dearer at 13*l.* 15*s.*; London 13*l.* 12*s.* 6*d.*; Hull 14*l.* 6*s.* 3*d.*; Liverpool 14*l.* 7*s.* 6*d.*; Leith 14*l.* 7*s.* 6*d.*; and January to June 14*l.* 15*s.*

**ANISE OIL (STAR)** is firm with small sales at 7*s.* spot, and for December-January shipment 6*s.* 4*d.* c.i.f. has been paid.

**ASA FETIDA.**—The *Elleric*, from Bushire, has brought 88 packages.

**BELLADONNA-LEAVES.**—A good business has been done on the Continent at about 52*s.* 6*d.* c. and f., but only small lots now offer, holders asking 3*s.* to 4*s.* more. The *Root* is neglected at from 29*s.* to 34*s.* per cwt. c. and f.

**BUCHU.**—The exports from the Union of South Africa during October amount to 10,040 lb., valued at 1,450*l.*, against 8,385 lb., valued at 966*l.*, during 1911. For the ten months ending October 1912 the exports were 212,196 lb., valued at 36,381*l.*, against 198,806 lb., valued at 28,171*l.*, in 1911.

**CAMPHOR (REFINED).**—Sellers of Japanese 2½-lb. slabs quote 1*s.* 5*d.*, and 1-oz. tablets at 1*s.* 6*d.* c.i.f. for January-February shipment.

**CLOVE OIL** is firm at from 5*s.* 6*d.* to 5*s.* 8*d.* per lb. for English distilled, according to quantity.

**CLOVES** are firmer, the spot price of Zanzibar closing at 9¾*d.*; to arrive, October-December shipment is quoted 9½*d.* c.i.f. d.w., and January-March delivery at 9¾*d.*

**COLCHICUM.**—Root in slices has lately touched the lowest price of recent years, being offered at 36*s.* per cwt. c. and f.; the crop of *seed* has been small, a limited quantity offering at 71*s.* 6*d.*

**COPPER SULPHATE** is easier, the usual Liverpool brands offering at from 24*l.* 15*s.* to 24*l.* 17*s.* 6*d.* for prompt; January-February 25*l.* 2*s.* 6*d.* to 25*l.* 7*s.* 6*d.*; and March-April 25*l.* 10*s.* per ton.

**CREAM OF TARTAR** is about steady, with 98 per cent. powder offering at 86*s.* 6*d.*, and 95 per cent. at 84*s.* 6*d.* per cwt.

**GINGER.**—The sales in Liverpool include about 25 tons new crop Sierra Leone for March-April shipment at 22*s.* 6*d.* c.i.f.

**GLYCERIN.**—A Marseilles report states that the international market is quiet, with buyers and sellers apart in their views, and only isolated contracts being made at practically previously quoted prices of from fr.150 to fr.155 per 100 kilos. for saponification quality, and fr.130 to fr.132.50 for 80 per cent. crude for December-January, or over 1913 delivery. Cables from U.S.A. report an improvement in American conditions, meanwhile the following prices are quoted: Saponification glycerin, December-January delivery, sellers fr.155, buyers fr.150; delivery over 1913, sellers fr.155 to fr.160, buyers fr.150 to fr.155; 80 per cent. crude, December-January, sellers fr.132.50, buyers fr.130; delivery over 1913, sellers fr.132.50, and buyers fr.130 per 100 kilos.

**HELLEBORE-ROOT.**—Black is quoted at 15*s.* 6*d.*, and white at 36*s.* per cwt. c. and f. The demand for the latter has been brisk on the Continent, and stocks at some of the primary centres are said to be exhausted.

**INSECT-FLOWERS.**—A Trieste report states that the demand has been very unsatisfactory, and in view of the accumulation of stock prices are lower, the following being the quotations: Fine *wild* closed, 135*s.* to 145*s.*; fine cultivated closed, 120*s.* to 135*s.* 6*d.*; half-closed, 100*s.* to 115*s.*; good, 80*s.* to 93*s.*; and open, 65*s.* to 70*s.* per cwt., c. and f. If the present quietness continues, approximate bids may lead to business. The following statistics from Trieste are of interest:

Season	1908-9	1909-10	1910-11	1911-12	1912-13
	Cwt.	Cwt.	Cwt.	Cwt.	Cwt.
Stock, June 1	2,676	1,452	2,810	3,874	2,474
Arrivals	6,984	4,054	8,022	6,184	5,982
Deliveries	8,144	2,684	7,214	6,916	3,996
Stock, Nov. 30	2,516	2,822	3,618	3,142	4,400
Price, Nov. 30 (open)	81 <i>s.</i> 6 <i>d.</i>	118 <i>s.</i>	84 <i>s.</i>	74 <i>s.</i> 6 <i>d.</i>	68 <i>s.</i> 6 <i>d.</i>

It will be seen from the above that the total deliveries this season have been smaller than usual.

**JUNIPER OIL.**—In view of the scarcity and high values of berries dearer prices are quoted—viz., 250*s.* per cwt., c. and f., and 275*s.* for double-rectified.

**LAUREL OIL.**—The production of green expressed oil has been very small this season, and prices are dearer, one exporter offering at 75*s.* per cwt. c. and f.

**LEMON OIL.**—With continued scarcity on spot, up to 9*s.* 3*d.* has been paid, and in one quarter 9*s.* 6*d.* is asked; other quotations are 8*s.* 9*d.* to 9*s.* spot, and 8*s.* 4*d.* to 8*s.* 6*d.* c.i.f. for January-February shipment.

**LINSEED OIL** closes at 25*s.* 6*d.* in pipes and 26*s.* in barrels on spot.

There is a moderate business doing (says a monthly report), some trade houses covering up to August 1913. Present quotations are certainly lower than for some three years, and attractive on that account, but we believe prices will be considerably cheaper in another month or two, although we judge the decline will be slow until some more definite news is to hand as to the outcome of the Argentine linseed-crop. At present reports from that quarter are quite favourable; the harvest is in progress in some parts of the country, and everything points to a record crop. Should this be confirmed, we would not be surprised to see price of oil fall below 20*l.* a ton, as North America will be forced to realise part of her large surplus in the European market, and at the same time will not need any portion of the Argentine crop, as has been the case the last two or three years. We have no official news yet with regard to the acreage put to linseed in India for 1913 season. It is said here by some houses that a crop equal to that of 1912 (say, 500,000 tons) may be expected. This we doubt, as the present comparatively low value of linseed and the prospects of still lower prices would, we should expect, cause growers to turn their attention to other cereals.

**MANNA** is quoted at from 225*s.* to 290*s.* per cwt. c. and f., the latter being for Gerace.

**MENTHOL.**—The sales to arrive comprise 50 cases Kobayashi-Suzuki and 50 cases oil combined at 29*s.* 6*d.* per lb. c.i.f. for January-March shipment. The spot price is nominal, at about 33*s.*, in the absence of business. The arrivals comprise 19 cases menthol and 40 cases oil,



per *Ptarmigan*, via Harve to London; also 55 cases menthol and 60 cases oil in *tr.*, per *Kitano Maru*.

MILK-SUGAR.—For contracts over 1913 60s. per cwt. would be accepted, being 1s. cheaper.

OPIUM.—Business is suspended for the holidays, and the market closes with an easy undertone; it is not anticipated that there will be any fresh movement until after the turn of the year. The *Adjutant*, from Smyrna to London, has brought 73 cases, also 97 cases *in transit*; the *Elleric*, from Bushire, has brought 220 cases.

A Smyrna correspondent writes on December 13 that about 94 cases have again changed hands this week for the U.S.A. and U.K., at from 15s. to 18s. 6d. for mixed low-grade qualities, and from 19s. to 20s. 6d. for new and old extra Karahissar. The weather has turned bitterly cold, with frost in the higher districts. . . . Owing to this sellers are firmer to-day. The arrivals in Smyrna amount to 2,076 cases, against 1,015 cases at the same date of last year.

PEPPERMINT OIL steady, with sales of Kobayashi (oil only) at 6s. 8d. per lb. c.i.f. for November-December shipment; spot is quoted 6s. 11d. to 7s.

QUICKSILVER closes steady with a limited quantity only offered from second-hands at 7l. 5s., the principal importers quoting 7l. 8s. 6d.

ROSEMARY OIL.—True Dalmatian is quoted from Trieste at 22s. c. and f.

ROSIN is lower, common strained offering at 15s. ex wharf.

SANDALWOOD OIL.—The Mysore sandalwood auctions have now been concluded, and the final results show that prices on the average have advanced fully 30 per cent. The prices fixed by the leading English distillers for finest oil, as we noted a fortnight ago, are from 21s. to 22s. per lb., with the possibility of a further advance later. The principal Continental distillers are quoting from 19s. 6d. to 20s., and are very firm thereat. The stocks in second-hands are in small compass, and it is not now possible to buy at the quotations given last week.

SHELLAC firm at from 70s. to 71s. for the usual standard T.N. Orange, with January-February shipment offering at 71s. c.i.f.

SOY.—The spot supply is extremely small, with retail sales of Seuloong at 1s. 6d., and for Wochan 1s. 7d. is asked.

STAVESACRE is offered at the low figure of 32s. 6d. per cwt. c. and f. London.

STYRAX.—For fair liquid in tins in cases for shipment in January 75s. c. and f. is quoted, and fair merchantable in barrels at 66s. per cwt.

TURPENTINE closes easier at 30s. 3d. for American on spot, and 30s. 6d. for January-April delivery. True Venetian is quoted at from 110s. to 118s. per cwt. for nearly transparent to transparent, and 96s. c. and f. for unfiltered cloudy in barrels of about 4 cwt.; *artificial* is offered at from 32s. 3d. to 34s. 3d. for prime to superior.

Signs of reviving confidence and broadening activity have not been wanting in turpentine during the last few weeks, and prices have advanced, especially for distant deliveries, in which some considerable business has been done at constantly increasing premiums ranging up to fully 3l. per ton for contracts over the last four months of next year. The demand has been pretty general, both dealers and consumers having purchased freely on the strong recovery. The substantial premium now exacted for forward delivery would seem to convey an idea of much more optimistic views. Another significant feature has been the extension of dealings about eighteen months ahead, which has seldom been the case before. The position this season differs very materially from previous seasons, when bursts of strength were mostly the outcome of reduced spot supplies, whereas the upward movement this time has been chiefly accelerated by the growing interest in forward contracts, in view of the comparatively low prices ruling and in anticipation of a gradual reduction of the stocks, which are still very considerable on this side and also in the United States. The London stocks on December 14 amounted to 6,207 tons, thus showing an increase of 3,295 tons against a year ago. The total imports during the last eleven months amounted to 29,764 tons, compared with 21,546 tons for the same period last year. There is one point worth mentioning, having regard to the outlet for the manufacture of material for decorating purposes. Now that the price of linseed oil

has dropped substantially in value and is gradually getting towards a normal level, business in paints and varnishes is likely to improve, which is calculated to add to the demand for turpentine. The prospect of much easier monetary conditions in America after the turn of the year may possibly facilitate the control of supplies in the hands of powerful interests, and there is but little doubt that the market will keep on the up-grade henceforth, in spite of temporary adverse fluctuations. In view of the recent sharp recovery in the price of American spirit the demand for substitutes has improved.

UVA URSI is offered at 14s. 6d. per cwt. c. and f. for natural sifted leaves.

WAX, JAPANESE.—Business has been done for January-February shipment at 42s. 6d. c.i.f.

## Commercial and Produce Notes.

### The Docks Collection of Drugs.

Consequent upon the paragraph which we published in our issue of December 14, index folio 895, regarding the collection of drugs, gum resins, resins, and curiosities hitherto kept at Crutched Friars, we understand that the Port of London Authority have had numerous offers for the collection, including one from Mr. John C. Umney, who offered to acquire the whole collection, and an inquiry also from the Pharmaceutical Society of Great Britain. The Authority intimate, however, that it is not intended to disperse the collection nor to part with it, and arrangements have been made for it to be transferred to the Cutler Street warehouse, where it will be maintained in future.

### The Bengal Quinine-factory.

Some interesting information concerning the cinchona-plantations in Bengal is contained in a recent number of the "Indian Medical Gazette." The present Bengal plantation, on a flank of the Sanchal Hill, overlooking the Runjo and Tista Valleys, in the Darjeeling district, was established in 1864. At first *Cinchona Succirubra* was almost exclusively cultivated, but in 1874 the Ledger plant and the Ledger hybrid were introduced. In 1900 a new plantation was started at Munsong, not far from Kalimpong, on the road to Pedong, in British Bhotan. This estate consists of 9,000 acres of forest, of which 3,000 acres are being planted with cinchona-trees. It may be mentioned that the cinchona-seeds are extremely light, being provided with a membranous expansion of wing. There are about 70,000 seeds to an ounce. The seeds are sown in specially prepared beds protected by pent-houses or sheds of bamboo covered with thatch; these nurseries face north in order to prevent excessive evaporation from direct exposure to the sun's rays. When the seedlings are about  $\frac{1}{2}$  in. high they are transplanted to other beds, an operation which is repeated when they are about 4 in. high. In the next spring they are finally planted out, about two thousand to an acre if close planting is practised, otherwise about a thousand to an acre are planted. The bark is not harvested till about ten years after planting, and seed is only taken from selected trees after a sample of the bark has been analysed. The bark is scraped off the branches and roots of the selected trees, dried, and powdered. The brown powder is mixed with slaked lime and water and left for a couple of days. It is then carried to the extraction factory. The bark is then tipped into a digester, water and about 20 per cent. of caustic soda are added, and the whole is stirred until it forms a thin, homogeneous paste. Hot oil is now allowed to run into the digester, which is kept hot by means of steam circulating in spirally coiled pipes. Stirring and heating are kept up for about three and a half hours, when the bark is allowed to settle, while the oil remains clear above. The object of this procedure is to extract the alkaloids from the bark by means of the caustic soda, and in turn take them up in the oil. The clear oil is now run off and transferred to a lead-lined iron tank, called the separator, of about 1,900 gals. capacity. Dilute sulphuric acid is then added, and the mixture agitated by jets of steam blown into the tank from pipes inside the tank. The alkaloids are here taken up by the acid solution. The mixture of oil and acid is allowed to settle, whereupon the oil is run off and used again in the extraction process. The acid solution is conveyed to the purifying-house, neutralised with caustic-soda solution, and the neutral liquor is emptied out into lead-lined troughs, in which the crude quinine sulphate crystallises out, forming a dirty-looking greyish pulp. The mixture of mother-liquor and crude crystals is centrifugalised in a



cylindrical copper-gauze basket with a strong outer casing of iron, which is made to revolve at a speed of 1,200 revolutions per minute. Crude quinine sulphate with about 10 per cent. of other alkaloids remains in the basket, while the space between the basket and the casing is filled with the liquor containing cinchonidine, cinchonine, quinidine, etc. To free the crude quinine sulphate from the still remaining alkaloids about 60 lb. of the cake from the centrifuge is dissolved in about 120 gals. of boiling water. A precipitate is formed that settles, bearing with it the colouring matter. The supernatant liquid contains now practically pure quinine sulphate, and, after filtering, is run into copper-lined troughs, in which final crystallisation takes place. The crystals and the mother-liquor are then transferred to the centrifuge. The white cake of pure quinine sulphate left in the basket is dried in the drying-room, an operation which takes ten days. It is then transferred to the packing-room, and, after sifting, packed in paper-lined tin boxes containing from  $\frac{1}{2}$  oz. to 4 lb. The boxes are soldered and packed in wooden cases to contain from 30 lb. to 50 lb. of quinine. The distribution of quinine to all parts of India is now done by the Bengal Jail Department through the Juvenile Jail, Alipore, where tablets of quinine and pice packets are prepared for sale and distribution. Quinine was first manufactured at the Mungpo factory in 1888, and 300 lb. was produced in the first year. It is interesting to note that the price of quinine fell from Rs. 20 *per oz.* in 1878 to only Rs. 12 *per lb.* in 1890.

#### New Zealand Sulphur.

White Island, in the Bay of Plenty, New Zealand, with an area of 588 acres, one-twelfth less than a square mile, has been purchased by a Canadian company with a capital of 100,000*l.* and shareholders in Australia and New Zealand. Part of the island is non-thermal, the other thermal. On the non-thermal part rock-sulphur is mined in deposits that are unique, covering about forty acres. The sulphur ore contains about 84 per cent. of pure sulphur, and the supply seems practically inexhaustible. On the thermal area sulphur springs pour out thick yellow streams of molten sulphur, 94 per cent. pure. This is dipped out with a hucket, and on cooling hardens into a solid mass. No such conditions are known in Sicily or Japan, the two largest sources of the world's supply. Some of the springs cannot be tested because of the density of the fumes, but one with a vent only 4 in. in diameter ejected about four tons an hour in pulsation, each gush yielding between 14 and 15 lb. of almost pure sulphur. With a boring plant, Mr. McGee, the manager, thinks that a series of artificial vents would ultimately reach the source of supply of the whole island, which on being given a vent would be forced to the surface by hydrostatic pressure. Thirty-odd men are employed and the average earnings are 14*s.* per day. Last year 4,200 tons of sulphur were imported into New Zealand and 224,000 tons into Australia; Canada imported 120,000 tons from Japan. With a protective duty to cut off the competition from Japan, which would immediately bring down the price if New Zealand supplies come on the market, the manager declares that he could supply Australia and New Zealand at 10 per cent. cheaper than the present ruling price, and as sulphur is a necessary constituent of explosives he considers it a matter of Imperial concern.

#### Olive Oil.

In the course of a circular issued by a Liverpool firm, dated December 13, it is stated that business has been very restricted for the past few months, as, owing to the wretched yields in almost all of the producing countries and the restricted receipts at shipping ports, prices were steadily advanced, and reached 52*l.* to 54*l.* c. and f. for Spanish, and 51*l.* to 52*l.* c.i.f. for Candia and Levant, but buyers would not follow. The outbreak of the Balkan War, and the consequent financial complications and political fears, induced pressure to sell, and, in the absence of buyers, values rapidly declined. Malaga is now offered at 50*l.* to 50*l.* 5*s.* c. and f. for December-February shipment, and Candia and Levant afloat are offered at 48*l.* 10*s.* to 49*l.* c.i.f. Edible and fine oils are in limited supply: prices steady, 54*l.* to 60*l.* c. and f., according to quality. Green sulphur olive-oil stocks at shipping ports of old-crop oil are becoming reduced, and to-day's quotation for best green Italian is 33*s.* per cwt. c.i.f. Green Italian olive-oil soap shippers maintain their prices for this soap, and quote to-day: 56 to 58 per cent., 24*l.* 10*s.*; 58 to 60 per cent., 24*l.* 5*s.*; 60 to 62 per cent., 25*l.*; 62 to 63 per cent., 25*l.* 10*s.* c.i.f. Liverpool or Hull, net cash. There can be no doubt that the unfavourable reports about the crops in Spain, Italy, Candia, and the Levant, and the Ionian Islands, have not been exaggerated, and as poor crops usually mean poor quality, we anticipate that acidity will be higher than usual. Spain

is said to hold large stocks from last year's crop, and the future course will depend greatly on the action of the Spanish holders. New oil is coming in to the ports, and sellers latterly show more disposition to meet buyers. There have been considerable arrivals of Candia during the past few weeks, which for the most part has been stored, as buyers could not be found at acceptable prices. Levant has also been shipped in quantity on consignment, and it is evident that holders of Candia and Levant oil have preferred to ship rather than take the risk of keeping it in stock at ports. The imports this year are much larger than for any of the past seven years, and nearly double those of last year. There is no doubt that some of the larger consumers have bought heavily for stock, and we hear of one who bought when prices were lower, and who now holds sufficient oil to cover his requirements until the spring of 1914. Adulterated and inferior oil is again in evidence, and we advise buyers, for their own protection, to have their oils analysed for purity and acidity. Some serious losses have again been incurred through leakage, and as it is increasingly difficult to insure against this, buyers are giving a preference to shippers who will sell at landing weight or gauge.

#### Java Cinchona and Quinine.

The British Consul for Java, Sumatra, etc., in his annual report for 1911 gives the following figures relating to the exports of quinine and bark for the past three years:

		Quinine.	Cinchona.
		oz.	lb.
1909	...	1,244,800	17,669,849
1910	...	1,533,200	20,427,348
1911	...	2,665,200	19,048,708

The price of the Bandoeng quinine-factory's sulphate of quinine advanced during 1911 from 5*d.* to 6*d.* per oz., and a ready market was found for the entire output of the factory.

#### New Zealand Trade.

The attention of H.M. Trade Commissioner for New Zealand has been called to the fact that New Zealand firms forwarding orders to British manufacturers are often inconvenienced by want of advice of the shipment of the goods ordered, and he points out that it would be of great assistance to firms in the Dominion if advice were sent, as soon as possible after the receipt of an order, of the date, or even probable date, of shipment and the name of the ship. The Commissioner adds that he is informed that sometimes the first knowledge of the completion of an order is given by the arrival of the goods in New Zealand. Such a sweeping charge as this does not, we feel sure, apply to the British drug-trade.

#### Mexican Drug-trade.

The American Consul at Guadalajara, who has been investigating the conditions of the drug and chemical business in Mexico, is not satisfied with his country's share. He states that the stock of an average drug-store in Mexico does not exceed one-third showing marks of American make. Patent medicines, rubber goods, trusses, a brand or two of toilet-soap, medicated cotton, razors and strops, formaldehyde and carbolic acid, together with chemical preparations put up by Parke, Davis & Co. and Upjohn & Co., are of American production. Germany supplies practically all fine chemicals and acids, glass syringes, tubing, bottling, etc., bed-pans, iron syringes, and tooth-brushes. France sells medicated pills and tablets, perfumes, fine toilet-soaps, face-powders, and many patent medicines. Spain sells a few medicated specialties. England sells sodas, borax, magnesia, and "borax-glass" (fused sodium borate). If Germany can produce and deliver chemicals and druggists' glassware at a lower price than the United States, then Americans cannot be expected to get the trade; but it would seem that some large chemical-manufacturers of New Jersey and Philadelphia could secure some of this Mexican trade if they sought it persistently and studied means of meeting German prices. The Consul is informed that the "borax-glass" sold by Mexican druggists, which they purchase in England, comes chiefly, in a crude state, from California, whence it is sent to England and prepared for the drug-trade. Cannot some American chemists prepare this article in the United States? asks the Consul. Several large patent-medicine manufacturers have sent men to Mexico and spent considerable money in advertising their brands without first arranging for their distribution through the drug-houses of the various cities. These advertisements create a demand, which the drug-houses then endeavour to supply by ordering from the maker. By the time the shipment reaches the druggist the effect of the advertising-campaign has been lost, and the trade is not secured. There are several American drug-houses, among them the two named, which are doing a large and increasing business in their products by reason of the fine quality of their goods.





### Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

#### National Insurance Dispensing.

SIR,—Your note at the foot of Mr. Mennie's letter in the *C. & D.* of December 14 is very misleading. How do you arrive at the conclusion that the new provision is to enable existing arrangements to be continued? There is absolutely nothing pointing to this, and I have no doubt that the offer made by Mr. Lloyd George to give the dispensing to the doctors outside the one-mile limit has been deliberately done, and is held out as a bait to please the doctors at the expense of the chemists. You ask if there is any reason to suppose that doctors who have not supplied medicines to their patients will do so now. I have no hesitation in saying that they will certainly do so if they think that it will pay them, and it must be admitted that they are offered better terms than chemists, as they are offered 1s. 6d. per insured person, and also have the power to say whether the person requires medicine or not. Our duty is to make sure that this opportunity is not given to them. We are at present supplying these people in Scotland, and we have a right to demand that we continue to do so. Mr. Mennie states that it will be a loss to him of 50 per cent. if he is only to supply people within a mile of his shop, and as far as concerns us here I should say that he has underestimated. This is a widely scattered district, and most of our customers reside more than a mile away, some as far as fifty miles. Our friends in England cannot understand our position, as conditions there are so different. Here we do all the dispensing now, and have absolutely nothing to gain from the Act, but, it seems, much to lose.—Yours faithfully,

Thurso. WM. CUMMING.

[The regulations do enable existing arrangements to be continued, in so far as doctors who at present write prescriptions for chemists to dispense may continue to do so. We quite recognise the cogency of Mr. Cumming's argument that the 8s. 6d. rate, including drugs (for which 2s. is allowed), may tempt some doctors to take the chemist's share as well as their own. If much of this happens before the end of April a case for revision ought to be made out.—EDITOR, *C. & D.*]

A Member of the Glamorgan Valley Chemists' Association (170/64) writes in regard to the effects of the Insurance Act on the industrial population, especially of Wales, and what chemists and their Associations are doing in regard to their part of the Medical Benefit. He deals with what the G.V.C.A. is doing, calls special attention to the extinction of existing contracts on January 15, 1913, and proceeds as follows:

Are we satisfied to dispense to *insured persons only*? My Association says "No"; and it is here that it gives the rest of the county a lead. There is deep and widespread dissatisfaction among the miners of South Wales with the present system of poundage in vogue at the collieries, a system wherein medicine and attendance are out of the control of the miners themselves who pay the poundage. Parliament has condemned this system in the National Insurance Act, this condemnation has gripped the fancy and imagination of the insured persons throughout the county, and in this way a large field has been opened ready for us by Parliament, and endless scope is offered for chemists for the future. What are we going to do with this great opportunity? My Association is bestirring itself to answer this question in the best way it can, both in the interests of chemists and in the best interests of the community as a whole. The Glamorgan Valleys Chemists' Association has gone thoroughly into the tariff, and has decided that the same tariff, meagre

as it is, could nevertheless be offered with advantage as a basis for dispensing, etc., to the wives and children of insured persons. My Association has decided to approach the Trades Union Lodges of our county with a view to the adoption of this tariff in respect of the wives and children of their members, and, if the proposed tariff will be accepted by the Insurance Commissioners, we have every reason to believe the Lodges will accept it for their wives and children. Our correspondent proceeds to urge chemists in other parts of the country to do the same thing, and concludes by asking chemists who have not yet done so to get into touch with their local Associations. He is apparently oblivious of the fact that his statements and general application of the principle are the most severe argument against the proposed tariff which has been put forward.

#### A Reminiscence.

SIR,—As reference has been made in several of the recent editions of *THE CHEMIST AND DRUGGIST* to the late Dr. Waldie, of Calcutta, may I be allowed to say that I was in the employ of Bathgate & Co., Calcutta, from April 1882 until 1886, and during that time I frequently saw him at our establishment, where he dropped in to see the senior partner, with whom he was on terms of friendship. On leaving Calcutta for Melbourne, Australia, in June 1887, I heard from a lady in Calcutta of Dr. Waldie's death in the General Hospital, Calcutta. The chemical works of which he was the proprietor were originally started by Bathgate & Co. at Kasipur, near Calcutta.

Yours faithfully,

A. F. COLLIS.

Bath.

#### Backhousia Citriodora.

Mr. R. C. Cowley, F.C.S., Director of the College of Pharmacy, Brisbane, Queensland, sends us the following copy of a letter which he has recently received:

Department of Agriculture and Stock, Brisbane.

November 14, 1912

SIR,—I have the honour to acknowledge the receipt of your letter of the 31st ultimo addressed to Mr. P. J. McDermott, Under Secretary, Chief Secretary's Department, which has been referred to this Department.

With reference to the destruction of *Backhousia Citriodora*, I desire to state that the incidence of this tree in Queensland, so far as is known, is limited, say, to the district northwards to Gympie along the coast, and unfortunately, from the oil-producing point of view, this district is a favourite for settlement for other purposes, and therefore there is but little hope of stopping the destruction of the trees, and particularly so when they are not sufficiently common to attract attention from an industry point of view.

As you are no doubt aware, Mr. Ingham has prepared oil from this plant for many years; but as an industry, I am afraid so long as the market price in London remains at its present level there is little hope of inducing people here to follow the industry when there are so many avenues through which higher returns can be obtained.

I have the honour to be, etc.,

ERNEST H. SCRIVEN, Under Secretary.

#### "And of all Respectable Chemists."

SIR,—The Insurance Act seems to have overshadowed all other matters of interest to the chemist. Not the least important is the way the trade has been exploited—without ever a question asked—by men we will say more clever than ourselves, as witness the stereotyped phrase "To be had of all chemists," and all that it leads up to. About two years ago a representative of a London firm on his usual call introduced an article for which he had taken sole agency. His recommendation in part was "I took it to ——— Ltd., but they declined to have anything to do with it unless at about 20 per cent. off our bedrock terms." He declined, went to the chemists and secured a number of orders on terms that limited companies were not to be supplied on the same terms; that the name of everyone stocking it would appear in a list at the end of an advertisement guaranteed in the local papers for twelve months. There may be twenty chemists in that town. I gave him an order, and very soon sent a repeat. This was entirely due to the fact that I spoke highly of the article. Now in to-day's paper in an advertisement the company with the 500 shops is trotted out, and a few other names where it is to be had, and as a sort of afterthought is added "From all first-class chemists." It raises my ire to be set down second fiddle, and the result—when I have converted



the one box I have into 2s. 6d. I stock no more. Under my recommendation I sold upwards of three dozen in a short time, but now a shake of the head with a shrug of the shoulders is all the recommendation it gets. I want that one box to last some time, and since the advertisement first met my eye in its present form I have sold another article in the three cases I have been asked for this. There are a good many proprietaries where we are allowed a profit of a penny in the shilling; in some less. But the stores will not handle anything on such terms; they may have to sell at the same price as we do, but they do not buy at the same. The argument that the quantity they buy makes it worth a manufacturer's while to take the terms they choose to fix is not a sound one. For my own part I take a stand with two classes of goods—antiquated it may be said—but still I do it, in many cases: (1) The article that shows little or no profit; (2) those that are palpable frauds. And now my question. Is it absolutely impossible to have a trade-union protection society, whose members would agree to support and carry out the decisions of a small committee, who would decide what articles, new or old, should be made to pay a fixed rate of profit, or be handed over to the stores? We are still a few thousand majority of distributors, and want only the one little addition—unanimity. It has hitherto been impossible to secure it. Can it be done now?—Yours faithfully,

ICH DIEN. (129/6.)

#### What's Wrong with Pharmacy?

SIR,—Following my letter of October 19, the subject seems so likely to touch all our pockets that I think it profitable to add to what I wrote then.

Buying clubs were brought into existence to evade the 5l. limit and the six Winchester order of drugs. I don't believe in such clubs, and the wholesalers could squash them any day by reducing the 5l. limit to 1l. (carriage by post) and 2l. (carriage by goods), and by giving rock-bottom price for the Corbyn when taken along with other goods, ordered weekly. But before wholesalers can do this, naturally the retailer must club with the wholesaler and not against him. To club with the wholesaler means:

- (1) Give and take on both sides.
- (2) Regular orders by post.
- (3) Orders for patents, drugs, and sundries to be written on separate sheets, to economise time.
- (4) Empties returned quickly and in good order; not merely the label and expect credit for a mythical cask and contents.
- (5) Invest 100l. in wholesaler's shares, or assure him that you have 100l. in some safe reserve clear of your business.

Imagine Boots' shops trying to increase profits by putting their orders past their wholesaler! Fancy expecting a wholesaler to keep expensive staffs and laboratories for our benefit and then put trade past his door! No wonder some prices are high. The wholesaler might meet us

- (1) With lower prices and smaller lots.
- (2) With window dummies, such as wood blocks to go inside cartons to make them build up better.
- (3) With better window cards—small and ready to put in.
- (4) With special shows, partly lent on special terms, such as sponges, brushes, and the like.

The effect on the drug-trade would be immediate.

- (1) 600l. overstocks would be reduced to 300l.
- (2) Windows dressed with 20s. worth of dummies instead of 10l. to 20l. worth of goods.
- (3) The businesslike way of ordering goods and the systematic help in window-dressing would react on assistants, and make them more interested in their work.
- (4) Businesses doing 1,000l. a year would sell better because they could do the trade on a stock of 250l. instead of 500l.

The financial effect of dummies is easily seen in Boots' shops as compared with stock in each window. Suppose four windows to each shop at 20l. of goods to dress each window, instead of 1l. worth of dummies to each window:

Stock—80l. per shop×700 shops=56,000l.  
Dummies—4l. per shop×700 shops=2,800l.

Following this argument it would seem as if 700 private chemists must have 40,000l. to 50,000l. of surplus stock on show in their windows, and then put away and stored, instead of the same advertisement and purpose being served by 3,000l. worth of dummies.

Economically wasteful was and is the chemist's buying of goods—much more so his waste of time and loss of spirit in trying to make his own tinctures (besides the absence of standardisation), and only after Ucal and others have shown the way has it become clear that to make all his own galenicals and proprietaries is also wasteful. We must separate the ones easy and simple which serve to keep our staffs busy from those which need boiling and the wasteful storing of bottles, labels, and cartons to finish them off. Put shortly, "drys" pay to put up; "wets" don't. During all these thirty years of waste Boots have been carting out to their shops great loads of their own proprietaries made at bottom-cost in their own factory. It reminds one of David and his sling against Goliath with a Maxim gun: David would have been outclassed. So are we! Boots have made 100 per cent. on their own lines and no waste: we have made 100 per cent. and sunk the most of it in labels or more stock which again needs to be sold before we can count the profits.

Economy without stint will be needed to work the Insurance Act profitably for the druggist. The Socialists have advocated at Town Council elections for years a free public dispensary worked at the cost of the rates. In Australia many of the friendly societies have dispensaries, and, finding the profit to be as small as any of us could have foretold, they are now seeking power to trade as well as dispense. The working class in England are firmly convinced that the druggist still makes huge profits. Therefore whatever the Government offer us will be a low price; but with a proper combination of wholesaler, retailer, and interested, helpful assistants, I have no fear of making it pay. Closer union and a well-defined policy will put us on a level with a company; but the policy must be followed or we lose the advantage which we have over the company of managing our own business instead of having a manager.

JAY MACK.

#### Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

#### Golden Eye-ointment.

In reply to "Vox" (147/70), during my twenty-two years' experience in the retail I have always given, and seen given,

Yellow mercuric oxide ... .. gr. iv.  
Soft paraffin (yellow) ... .. 3j.

as Golden Eye-ointment.—John W. Thornton.

#### Appreciations.

"The C. & D. Diary is A1 this year. The daily quotations are very good."—(169/67.)

Enclosed please find cheque value 10s. for the invaluable C. & D. for another twelve months. To be without it for twelve months would be like being exiled into Siberia to me. I often get my sub. back the first week from "tips" I get through it.—T. Davies.

The C. & D. Diary, 1913, has reached me, and it really does seem to be fatter than ever—fatter in actual bulk, and certainly not leaner in the store of good things provided for chemists and druggists throughout the world for their use during the coming year. The "Practice Section" is especially valuable to the busy worker, and many useful hints will be found. Appropriately enough the section opens with an optical article of great value, which will be welcomed not only by the Society of Chemist-Opticians, but by optologists generally. The C. & D. has a very honourable record in connection with the optical side of the chemist's business, for if it had not been for the stimulus you gave to the idea some nine years ago it would not have developed into the extremely healthy side-line which it now is in the hands of thousands of pharmacists. I can fancy no better Christmas gift than the Diary, a volume which in its daily use during the coming year will always remind us of our perpetual obligation to the C. & D.—(169/44.)

#### Vending of Entire Drugs.

I quote the following sentence from a leading article of yours in THE CHEMIST AND DRUGGIST: "Unqualified persons vending entire drugs must also be licensed." If that be true, then how does it come about that castor oil, Epsom



salts, powders containing acetanilide, phenacetin powders, and a whole lot of common entire drugs are at present, and have been for many years, sold by people who have no patent-medicine licence, and who have no idea of taking out one?—*J. H.* (167/30).

[The sentence should perhaps have read: "Unqualified persons vending medicines under the Entire Drugs Exemption must also be licensed." In the drug-trade the term "entire drugs" is usually reserved for the drugs in the second exemption to the general charge of duty in the Medicine Stamp Act, 1812. If drugs other than those mentioned in the first exemption (see "Pharmaceutical Formulas," Vol. II., p. 33) are vended with any of the claims mentioned in the general charge of duty (see *C. & D. Diary*, 1913, p. 217), they are exempt from duty when sold by exempted or licensed vendors.]

### Legal Queries.

Consult "The Chemists' and Druggists' Diary," 1912, pp. 435 to 454, where most legal difficulties are anticipated, before writing about your difficulty.

*Opus* (155/65).—A recently purchased the business and goodwill of the late B, and is now carrying on the business under the name of "B." C, who was formerly B's assistant, has opened a shop a few doors away from A, and is using the name of the late B on all his billheads, labels, and placards in such phrases as "For many years assistant to the late B." A wishes to know whether he can restrain C from using the name of "B" as stated above. [A cannot restrain C from using the name of B in the manner stated. A should have provided against such a contingency when purchasing the business.]

*Chemicus* (164/58) puts the following question about INSURANCE ACT DISPENSING: "I am likely to dispose of my business. If I put my name on the panel for Insurance dispensing, could I have my successor's name put on when I sell it, probably a few weeks after the new year? The point is: Can my successor take up where I left off as regards the Insurance dispensing?" [A new contract will be entered into by the successor in accordance with the following regulation:

38.—(1) Where a chemist or other person commences to carry on business in the County during the year and desires to undertake the supply of drugs or appliances or both under the arrangements by the Committee he shall upon application to the Committee be entitled forthwith to be included in the list.

The second part of the regulation provides for continuance of supply in the case of a pharmacist's executors.]

*Vendors* (163/4) was given six months' notice to quit by his landlord, which notice expired a fortnight ago. "Vendors" is still in possession, and wishes to know what his position is. Can he be turned out any day? ["Vendors" is liable to pay rent for the period he holds over, and may be liable for double the yearly value of the premises, at the suit of the landlord. The landlord may recover possession of the premises any day; he may re-enter personally if he can do so peaceably, but is not entitled to eject "Vendors" forcibly without taking legal proceedings.]

*Zero Staff* (41/34).—In the event of the death of one of two partners, where the partnership-deed does not provide for such a contingency, what is the position of the wife of the deceased partner? [The partnership is dissolved by the death of the partner, and, unless the deceased partner has made a will containing contrary provisions, his widow will be entitled either to the whole of his share in the partnership or to a portion of it, according to the ordinary rules regulating the distribution of the estates of deceased persons. If the surviving partner continues to carry on the business without a settlement of accounts, the representatives of the deceased partner will be entitled, at their option, either to a share of the profits or to interest at the rate of 5 per cent. on the amount of the deceased's share of the partnership assets.]

*C. O. D.* (167/23) wants to know if a drug-store keeper, not registered under the Pharmacy Act, will be allowed under the Insurance Act to dispense medicines which do not contain poisons—*e.g.*,

R. Ung. acid. boric. ... 3j.

M.D.U.

[The names of such persons will not be placed upon the dispensing panel, but upon the list of contractors for drugs and appliances. The above is a prescription, and the filling

of it is a dispensing transaction in general acceptance of the term. Moreover, the furnishing of stock mixtures is considered officially to be "dispensing," and this is on all-fours with the boric-ointment prescription. The regulations and instructions are remarkably silent as to where the drug-store keeper comes in, and under any circumstances he will be subject to such pharmaceutical control as is provided in the regulations. We must wait to see what the Insurance Committees do before it can be said what is "dispensing" and what is "supplying."]

*Holborn* (166/21) writes: (1) Small quantities of certain proprietary medicines are often supplied to prescription—*e.g.*:

Syrup. hypophosph. co. (Fellows) 3iv.

Dose: One teaspoonful, etc.

Would the supply of this prescription necessitate a medicine stamp being affixed to the bottle? [Yes. See "Dispensing," p. 220 of the *C. & D. Diary*.] (2) Supplies of Fellows' syrup were obtainable from wholesale agents in unstamped sizes for dispensing purposes. That has now been altered, and it is now only obtainable in bottles bearing a threepenny or sixpenny stamp, according to size of bottle. In "breaking" a bottle to fill a prescription for syrup "entire," is it still necessary that a stamp shall be affixed to each bottle supplied from a stamped bottle? [Yes; although the Revenue authorities cannot enforce payment of duty twice, absence of the stamp from a dutiable article is evidence, until the contrary is proved by the vendor, that the duty has not been paid. It is not worth the vendor's while to risk prosecution in the hope of proving the contrary, and it is not impossible to import dutiable articles unstamped, a circumstance which the Revenue authorities cannot overlook.] (3) In Newbery's 1912 catalogue, p. 441, under "Re-bottling Stamped Medicines," etc., it reads:

"If, however, you wish to sell Fellows' Syrup or other dutiable liquids from a duly stamped bottle, without re-stamping, you can only do so to a customer who brings his own bottle."

This ruling appears contradictory to the custom of the trade, and expert opinion on the point would be appreciated. [Not necessarily a contradiction. If the vendor takes the purchaser's bottle, puts the syrup into it, corks it, finishes off, and hands to the purchaser, duty must be paid. If, however, the vendor hands the syrup in a measure to the purchaser, who puts it in the bottle and does the rest, it is not dutiable, because the vendor does not sell it in an inclosure. This is what Newbery's catalogue means. See "Inclosure," *C. & D. Diary*, p. 220.]

*F. J. H.* (168/41) has a medicinal speciality which he sells stamped in proper value, and also sells it on draught; an advertisement of its virtues is prominent in the shop. He asks: "Am I quite within my rights as regards selling by draught this medicine without it coming within the scope of duty-stamped articles?" [Our correspondent is acting within the law as he does, because the medicine is in bulk and it is not sold in a dutiable inclosure.]

### Miscellaneous Inquiries.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published prices, usually 6d.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

*Plintus* (Barcelona) (259/19).—(1) We know of no formula for a non-silver marking-ink which will not deposit after the ink has stood for a long time. The best that can be done is to pour off the upper part of the product from the recipe given in "Pharmaceutical Formulas" (Ed. VIII.), p. 461. (2) Formalin mixed with milk is one of the best fly-poisons. It is advisable to colour the liquid, or accidents may arise from leaving it about. Arsenical fly-papers are not so much in use as formerly, the sticky variety being most employed. (3) There is no book dealing solely with drug-grinding. Most books on pharmacy touch on the subject. (4) The saccharin patents are numerous, and although the earliest one has expired, the product was not so pure as that made under subsequent patents. (5) The methods of estimating starch and dextrin are described in such works as Jago's



"Technology of Bread-making" (Simpkin, 21s.), but the details are too lengthy to reproduce in this column.

A. G. S. (159/66).—WOODEN TONGUE (actinomycosis) in cattle is usually treated by scraping the affected parts and swabbing with a 1-in-20 solution of iodine in potassium-iodide solution. The disorder is infectious and communicable to man, so it is desirable, when it is discovered in any animal, that the beast should be isolated and, if possible, slaughtered.

*Imprimis* (168/22).—There will be little account-keeping to do under the National Insurance Act. The chemist will get each order or prescription in duplicate, and all he has to do in rendering the account periodically to the local Insurance Committee is to number each of these orders (if not already numbered), and put that number on the invoice or account. One set of the duplicates has to be sent to the Committee with the account, and the chemist retains the other himself on file. No special system of bookkeeping is necessary.

J. F. K. (164/19).—When aspirin and potassium citrate are dissolved in water, the former is split up into free salicylic and acetic acids. The latter acid will in time react with the citrate to form potassium acetate and citric acid.

*Rub.* (81/5).—PULV. CYNOGLOSSI.—The Norwegian recipe is as follows:

Flores caryophylli ... ..	6
Cortex cinnamomi ... ..	6
Radix althææ ... ..	8
Stigmata croci ... ..	15
Opium ... ..	20
Radix cynoglossi ... ..	10
Semina hyoscyami ... ..	15
Gummi-resina olibanum ... ..	20
Gummi myrrha ... ..	20

This powder is used in making pilularum cynoglossi, 0.1 gram of the powder being contained in each pill, and simple syrup is used to make the mass.

*Ph.C.* (75/61).—DR. RAINY'S PILLS.—Each pill contains:

Pil. hydrargyri ... ..	gr. iiss.
Pil. aloes socot. ... ..	gr. iiss.

Fiat pillula.

G. H. C. (145/2).—LEMON SEIDLITZ POWDERS.—The following is from "Pharmaceutical Formulas":

*Blue Paper.*

Pulv. scidlitz ... ..	5ij. ʒij.
-----------------------	-----------

*White Paper.*

Pulv. ac. citric. ... ..	gr. xxxv.
Ol. limonis ... ..	ʒss.

W. S. (33/16).—HAIR-DRESSING.—We do not know the preparation to which you refer, but from your description we think that mucilage of tragacanth with perfume and preservative would meet your requirements.

G. H. M. (126/21).—We cannot identify the "chrome salts." You should submit a sample to an analyst.

S. W. E. (138/44).—CHEST AND LUNG CAKES.—These are presumably a cough-lozenge on the lines of the linseed, liquorice, and chlorodyne lozenges, for which a formula was given in the *C. & D.*, November 9, index folio 734.

*Hair-wash* (140/64).—THE HAIR-RESTORER, a sample of which you send, is an ordinary lead wash. Formulæ for this will be found in "Pharmaceutical Formulas" and back numbers of THE CHEMIST AND DRUGGIST.

*Sweeps* (9/12).—SWEEPING-COMPOUND used for sprinkling floors before sweeping. The general formula for this class of compounds is as follows:

Dry sawdust ... ..	10 lb.
Paraffin oil ... ..	32 oz.
Paraffin wax ... ..	2 oz.
Coarse salt ... ..	½ lb.
Eucalyptus oil, or	
Crocin ... ..	2 oz.
Sea sand ... ..	4 lb.

The sawdust is dyed with bismark brown if it is desired to darken the compound, but it is better free from dye.

J. E. Y. (115/10).—FRUIT PRESERVATIVE.—This is salicylic acid. 0.1 drachm of the powder is dissolved in three pints of hot water, and, when cold, the solution is poured over

the fruit in jars, which are then tied down with parchment. When the fruit is required for use, all that is needed is to pour off the liquid, and the fruit is then cooked in the usual way.

C. R. (Nice) (138/34).—MEDICINAL USE OF PARAFFIN.—The chief references to the use of soft paraffin and liquid paraffin internally are as follows:

1885. Dixon and Randolph: Vaseline administered in doses of 4 to 8 drs. daily, "every grain of which was reclaimed unchanged from the stools, save the minute loss attributable to separating and purifying."

1886. Harris ("British Medical Journal"): Vaseline in 1-dr. doses every hour in cholera. Results inconclusive, but it is mentioned that from 3 to 4 oz. was administered in the aggregate in particular cases.

1899. Hutchison ("B.M.J.") reports on petroleum emulsion, and concludes that the petroleum is not absorbed. The equivalent of 7 grams of semi-fluid petrolum was administered daily.

1899. Upson ("Philadelphia Medical Journal") states that white petrolatum in doses of 50 to 100 grams is "a most efficient and unobjectionable laxative, as it acts wholly in a mechanical manner, without causing any irritation whatever."

1900. Fothergill administers petroleum emulsion in infantile diarrhoea.

1900. Pure liquid paraffin is valuable precisely because it is inert; moreover, it might some day perhaps be made the vehicle for effective topical remedies. It is as tasteless as it is harmless, and is therefore acceptable to all patients in almost any doses. The internal use of petroleum was strongly advocated some years ago by W. D. Robinson in phthisis, as well as for tuberculous and other forms of diarrhoea ("Medical News").

1903. Binkerd ("Ther. Gazette") states that "the finest grades of crude petroleum" is a valuable remedy for acute affections of the respiratory tract. Acts as mechanical lubricant. It is also a valuable intestinal anti-ferment. The gastric and intestinal juices do not affect it, and it is not absorbed. Useful in typhoid when given in half-teaspoonful doses. Entirely safe and cheap.

1905. Ewart ("B.M.J.") gives petroleum two teaspoonfuls every four hours in typhoid, equivalent to 1½ oz. in twenty-four hours. This is the maximum dose he has used for adults, "but this amount might easily be increased." Paraffin in sufficient doses is in itself a non-irritating mechanical laxative.

1908. Stephens ("Medical Annual") refers to injections of undiluted refined petroleum in amoebic dysentery. The quantity used is stated to be "one quart."

1909. Lipowski ("Berlin. Klin. Woch.") melts 8 oz. of paraffin (m.p. 38° C.) and injects into the bowels at bedtime for softening the fæces.

1912. Ferguson ("New York Medical Journal") advises the administration of liquid paraffin in post-anæsthetic vomiting. It is, he states, inert as a therapeutic agent, is an excellent protective to mucous membranes, will hold in suspension and cause to be evacuated any other remaining in the alimentary canal.

The references are in all cases to the refined products, as cases of poisoning from crude paraffin and unrefined soft paraffin have been recorded.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," December 15, 1862

### Next Year.

We have received an immense number of letters from our subscribers upon the proposed alterations in our journal. To read this mass of correspondence, and extract from it the "yeas" and "nays" of our constituents, has been no easy task; to print it entire we should require the space of about fifty pages. From the selection of letters which we print in the present number, our readers may learn that the proposition for suppressing the "Price Current" is strongly objected to by the majority. . . . The series of articles on "The Natural Orders of Plants" is concluded in the present number, and next year the talented author intends to supply us regularly with papers on New Remedies, and various subjects of practical interest. Mr. W. B. Tegetmeier and Mr. C. W. Quin, F.C.S., will remain on our staff, which we shall strengthen considerably with writers whose signatures will be familiar to all who read the first-class scientific periodicals.



# What Chemists say about Odol.

**LIVERPOOL.**

"I beg to enclose you another £10 Odol order. Shall be pleased to send you photo of the Window Show. Odol has a steady sale. My customers who once commence with it invariably continue using it."

**LONDON, W.**

"We enclose photo of our Odol Window Display. The sales have been most satisfactory—three times larger, compared with those of last month."

**MANCHESTER.**

"I can do with any quantity of Odol advertising matter that you may feel disposed to forward. I get through a good quantity of Odol; it is one of the few 'proprietaries' where customers don't haggle over the price."

**LONDON, N.**

"I find Odol of very agreeable flavour and possessing great cleansing and antiseptic properties."

**GLOUCESTER.**

"Odol is always satisfactory to handle, and sells well."

**LONDON, W.**

"I have tried Odol and find it exceptionally cleansing and refreshing. I always feel a satisfaction in recommending it."

**BRISTOL.**

"Please have my name and address etched on another lot of Odol tumblers as before. I put them in the window with a tooth brush in each, and they sold one another capitally."

**LONDON, N.W.**

"I must admit Odol to be a splendid mouth-wash; by far the best on the market."

**EASTBOURNE.**

"I have omitted to write you earlier *re* Odol Window Show. The one Month display made a lot of difference to my sales, which have considerably increased. Please forward the usual quantity of Odol (strong), also some advertising material—as much as you can spare."

**HUDDERSFIELD.**

"I have tried Odol myself, and find it to be a very pleasant and refreshing mouth-wash."

**BIRMINGHAM.**

"I have always found Odol decidedly pleasant and refreshing in use."

**LONDON, S.W.**

"I have been using Odol myself, and must say that I have found it very pleasant and refreshing in use."

**DUBLIN.**

"Please send at earliest convenience sufficient material for a whole Window Display. My last Odol display was a great success."

**ABERDEEN.**

"I shall be pleased to give you one window for an Odol Display. I always recommend Odol to my customers."

**BRADFORD.**

"I recommend Odol wherever I can (to our mutual benefit), and am pleased to say that my sales are increasing."

*The above are extracts from a few of the many letters that are continually being received from well-known Trade authorities.*

It profits both pocket and reputation to stock Odol. It makes a dainty show, attracts the right sort of customer, yields a good profit, and, by the fact of its undeniable superiority, reflects credit upon all who sell it.

ODOL CHEMICAL WORKS, 59-63 Park Street, LONDON, S.E.



**Bromides, Iodides, Bismuth Subnitrate, Gallic Acid, Phenacetin, Salol,**

**Cacodylates,  
Glycero-  
phosphates,  
Veronal,  
Atropine,  
Eserine,  
Pilocarpine,  
Cocaine,**

**A Druggist is known by the drugs**

**he sells, therefore specify**

**Merck's**

**on your orders.**

**Merck's are the Standard and cost no more.**

**Santonin,  
Salicin,  
Strychnine,  
Sparteine,  
Terpin-  
hydrate,  
Veratrine.**

**Yohimbine, Caffeine, Chloralhydrate, Morphia, Codeine, Dionin, Styptoln,  
Chloroform for Anæsthesia, Ether for Anæsthesia,  
Fibrolysin, Photographic Chemicals.**

**E. MERCK, DARMSTADT & 16 Jewry St., LONDON, E.C.**

TRADE MARK.



AGENTS:

**F. W. BERE & Co., Ltd.,**  
Fenchurch Av., London, E.C.  
**BEYCE, SON & Co.,** Manchester.

**COCAINE  
MORPHINE  
CODEINE  
APOMORPHINE  
COTARNINE  
ETHYLMORPHINE  
DIACETHYLMORPHINE**

and all other Opium-Alkaloids.

**"INGELHEIM"**

**BRAND.**

**C. H. BOEHRINGER SOHN, NIEDER-INGELHEIM, RHEINL.**

## CEYLON CARDAMOMS.

It is agreed among buyers and users the world over that Cardamoms produced on the island of Ceylon are

**SUPERIOR TO ALL OTHERS.**

During 1910, the shipments from Ceylon to the principal commercial centres of the world amounted to

**609,893 POUNDS.**

Of this quantity no fewer than 215,469 pounds—over one-third of the total shipment—came direct to the United Kingdom.

An attractive illustrated pamphlet dealing with the medicinal and condimental value of Cardamoms and giving the names of the principal shippers may be obtained (with any further particulars required) from the

**CARDAMOM**

**:: CESS ::**

**COMMITTEE**

**Kandy, Ceylon**



# Results—their Recommendation

**Unguentum Resinol** is a skillfully made and a chemically pure Ointment. Its therapeutic properties are decidedly healing, nutrient and antiseptic. The consistence and pliability of this ointment commend it especially as an application of exceptional merit in all eruptions and irritations of the skin. It is prescribed daily by leading physicians throughout the world for

**ECZEMA, HERPES, SEBORRHOEA, ERYTHEMA, IMPETIGO, TINEA, ERUPTION OF POISON IVY, PILES, BURNS, SORES AND MINOR WOUNDS, AND ABRASIONS OF THE SKIN.**

It allays the itching of **PRURITUS ANI** instantaneously.

Its utility as a specific for this trouble is recognised by practitioners of every school and every nationality.

**Resinol Soap**, containing in a modified way the same medication, is most delightful for the toilet and bath, and is the only soap that should be used for bathing persons subject to, or affected by, skin troubles.

**Resinol (medicated) Shaving Stick** also contain the healing and antiseptic virtues that have made Resinol Ointment so famous. Its free, creamy lather soothes and prevents the irritation incident to shaving. It is a real luxury and comfort to self-shavers.

These Preparations are for sale in all leading drug stores in every country of the world.

GREAT BRITAIN BRANCH:  
67 NEW OXFORD STREET,  
LONDON, W.C.

**RESINOL CHEMICAL CO.**  
BALTIMORE, MD.

AUSTRALASIAN AGENTS:  
CHARLES MARKELL & CO.,  
SYDNEY, N.S.W.

**B & S Brand**

**COCAINE BOEHRINGER**

**SULPHATE OF QUININE AND ALL CINCHONA PREPARATIONS.**

Acetanilid,  
Atropine,  
Caffeine,  
Chloral-Hydrate,

Codeine,  
Coumarine,  
Eserine,  
Guaiacol,

Hydrastine,  
Hydroquinone,  
Lactophenine,  
Phenacetin,

Pilocarpine,  
Pyrogallie Acid,  
Resorcine,  
Santonine,

Terpin-Hydrate,  
Veratrine,  
etc.

**C. F. BOEHRINGER & SOEHNE, MANNHEIM-WALDHOF (Germany)**

SOLE AGENTS FOR THE  
UNITED KINGDOM:—

**Messrs. DOMEIER & CO., 8 Harp Lane, LONDON, E.C.**

**Schmitt & Wildenhayn,**  
**DARMSTADT, Germany.**

Headquarters for all European Pharmaceutical Crude Drugs, Kitchen Herbs, etc.; also Importers of Colonial and Exotic Drugs (Jaborandi Leaves, Manaca Root, GUM CHICLE, etc.)

**PURE Chemicals, Dressed Drugs, Pharmaceutical and Alcohollo Preparations, Methylated Spirit, Essences for Rum, Gin, etc., etc.**

Special for the **TROPICS:**  
**ANT EXTERMINATORS.**

All Correspondence promptly and courteously attended to.

**SAL HEPATICA.**

PUT UP FOR EXPORT.

Small size, 3 oz. bottle, in case.  
Medium " 7 " " "  
Large " 16 " " "

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, E.C.

The American Drug Stores, 24 Orange Street, Haymarket, London, W.C.

Burgoyne, Burbidges & Co., 16 Coleman Street, E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square, E.C.

Roberts & Co., 76 New Bond Street. W.







# PATTINSON'S MAGNESIA

CARBONATE. CALCINED AND FLUID.

THE WASHINGTON CHEMICAL CO., LIM., WASHINGTON, COUNTY DURHAM, ENGLAND.

London Agents—Messrs. CLIFFORD CHRISTOPHERSON &amp; CO., 21 Mincing Lane, London, E.C.

**EMETINE HYDROCHLORID.** (Whiffen's).**EMETINE HYDROBROMID.** (Whiffen's).

For Hypodermic Injection.

The New Remedy in Amœbic disease.—Vide *British Medical Journal*, Aug. 24, 1912, pp. 405-408.

We have manufactured these preparations during the past fifteen years, and they may be obtained by ordering Whiffen's Brand, from all Chemists and Wholesale Drug Houses in the United Kingdom and Abroad.

WHIFFEN &amp; SONS, LIMITED, BATTERSEA, LONDON, S.W.

Telephone—254 and 255 BATTERSEA.

**JOHAN BUGGE & CO., BERGEN.**Finest Pure Medicinal .  
Lofoten Non-Congearing**COD LIVER OIL.**

Sole Agents for United Kingdom—SPARKS, WHITE &amp; CO., LTD.

LONDON—Albion Mills, Tenter St. East. MANCHESTER—2 South King St. GLASGOW—41 Robertson St.

**B. A. SMITH & CO., 4 CHURCH ROW, ALDGATE, LONDON, E.C.**

(HENRY BOYCE, Manager), AGENTS FOR

**JOH. DIEDR. BIEBER, HAMBURG:**

Tinctures, Ethers, Liniments, and Spirituous Extracts, &amp;c., prepared with purest Spirit, and from best quality of raw Drugs, in accordance with requirements of British and other Pharmacopœias, Iodoform (absolute), Iodine Resublimed, Potassium Iodide, Sodium Iodide, all Preparations of Bromine. Santonin (from Turkestan factory), Cocoa Butter, Castor Oil, Chloroform, Cod Liver Oil, Resina Jalapæ, Resina Scammonia.

Telegrams :  
"Ether Methylated London."**ALFRED WHITE & SONS,**

Established 1775.

Manufacturing &amp; Export Chemists.

Telephone :  
1315 Holborn.Offices and Warehouse :  
28-31 ALLEN STREET,  
GOSWELL ROAD,  
LONDON, E. C.

Our BISMUTH CARBONATE is free from Nitrates, not only does this salt stand "The British Pharmacopœia" test with Indigo solution, but also the very delicate Diphenylamine test.

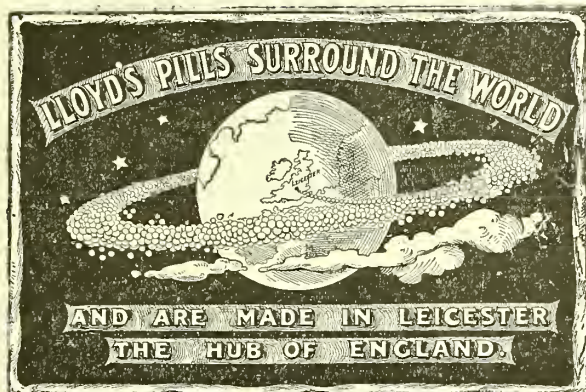
PRICE LISTS FREE ON APPLICATION.

Works and Wharf :  
— YIEWSLEY —  
CHEMICAL WORKS,  
WEST DRAYTON, MIDD.X.**COD****JERVELL & CO., Ltd.** (Late Otto S. Jervell)  
AALESUND,**LIVER** NORWAY.COD LIVER OIL  
MANUFACTURERS  
& WHOLESALE  
EXPORTERS.

FACTORIES AT LOFOTEN.

**Finest NON-FREEZING LOFOTEN COD LIVER OIL.**Sole Agents for United Kingdom: **W. Charity & Sons, 14 Harp Lane, London, E.C.** Tel. Add.: "Charity London." Tel. No.: Avenue 4359.**OIL**





**WRITE**  
**Howard Lloyd & Co., Ltd.**  
**LEICESTER.**

SPECIALITIES:— { PRIVATE FORMULÆ.  
GELATINE COATING.  
PEARL COATING.

# "SOLAZZI" LIQUORICE JUICE

**THE CHEMISTS' BRAND.**

**'The Lancet' says: 'Of Standard Purity'**

Recommended also by 'The British Medical Journal,' 'Health,' 'The Chemist and Druggist,' 'Food and Sanitation.'

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

**:: The NEW PURE LIQUORICE Juice ::**

# • APOLLO •

The makers of the well-known brands of Pure Block Juices "V.B." and "B.X.," who are the largest manufacturers of Liquorice in the World, beg to notify the Trade that they now manufacture a high-class **PURE STICK JUICE** which they have placed on the market under their registered brand "**APOLLO.**"

The same guarantee of absolute Purity, which for the past sixty years has been given with their Block Juices, equally applies to their new stick "**APOLLO.**"

Can be obtained of all the leading wholesale Houses.



Largely increased Production and Sale.

Special Terms to Large Shippers.

# PRECIPITATED CHALK

CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

SPECIAL QUALITY.

FINEST, LIGHTEST,  
and  
PUREST  
IN THE MARKET.Every particle is passed  
through a mesh of  
**40,000**  
to the square inch.**NICHOLS CHEMICAL CO., Ltd.,** Baxenden, Nr. ACCRINGTON.

"The purity of this Chalk is still maintained, and a feature of considerable interest to Pharmacists who pack their own dentifrices is the exceptional lightness of the article. Two ounces of the G. W. N. Brand occupy the space required for three ounces of the denser kinds in the market."—CHEMIST & DRUGGIST.

London Agents: **H. E. STEVENSON & CO.,** 122 Great Suffolk Street, S.E.

Paris Agent.

New York Agents.

**L. WEILER,** 2 Rue Théophile Roussel 12c.**P. E. ANDERSON & CO.,** 99 John Street, New York.**SAL AMMONIAC and SATIN WHITE . . . . . Apply direct.** [2]

## WHOLESALE TRADE ONLY.

*Established 1900.***DR. B. W. GATHERGOOD'S EXOR.**

——— Terrington St. John, WISBECH ———

For **GREEN EXTRACTS** and **DRIED HERBS**  
of **BELLADONNA, HENBANE, &c.**

## ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to **R. BARKER & SON,**  
11 Russell Street, C-on-M., MANCHESTER.

**DOES  
NOT  
CONTAIN  
any  
SCHEDULED  
POISON.**



**A PURE EXTRACT OF MALT**RICH IN PROTEIDS  
HIGHLY DIASTASIC**30% Clear Profit for the Retailer***Under P.A.T.A. Rules.***DIAMALT**Registered  
and in combination with**15% & 33% COD LIVER OIL**These Preparations  
have NO EQUAL  
on the Market.Universally prescribed  
by the Medical  
Profession.

See Reports from leading Medical Journals.

*Obtainable of all Wholesale Houses or direct from***THE BRITISH DIAMALT CO.**

11 &amp; 13 SOUTHWARK ST., LONDON, S.E.

Maltings and Works: SAWBRIDGEWORTH, HERTS.

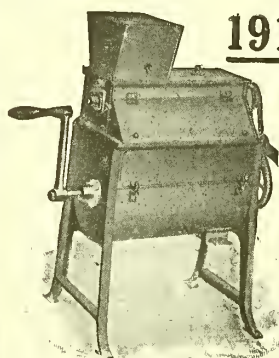
**ANALAX** The Ideal Laxative which  
has been so long wanted."Of special value to  
sufferers from habitual  
constipation." — M.D.,  
F.R.S.E., etc."A pleasant jujube  
which gives a mild but  
certain laxative effect  
without griping." — *The  
Lancet.*

IN DECORATED BOXES, 25 PASTILLES IN EACH BOX.

A Ready and Profitable Seller.

Sole Manufacturer: — **R. DEMUTH,**  
68 SALUSBURY ROAD, WEST KILBURN, LONDON, N.W.**Chlorate of Potash  
Chlorate of Soda  
Chlorate of Baryum  
Perchlorate of Potash  
Perchlorate of Ammonia**Selling Agents: **CHAS. MANGOLD & CO., LONDON**  
9 MINCING LANE.**SOCIÉTÉ D'ELECTRO-CHIMIE, PARIS,**  
2 RUE BLANCHE.1844 **THOMAS TYRER & Co. Ltd.** 1912  
**Sterling Brand**  
STRATFORD, LONDON, E.**GRAND PRIZE, LONDON, 1909.  
GOLD MEDAL, ST. LOUIS, 1904.****Acids, Hydrochloric, Nitric,  
Phosphoric, Sulphuric,**  
*PURE & TECHNICAL.***CHEMICALS**  
FOR  
**HORTICULTURAL**  
AND  
**AGRICULTURAL**  
**PURPOSES, &c.****Bismuths, Mercurials,  
Hypophosphites, Ethers**  
*and all Technical & Special Chemicals.*  
OUR SOL. 'MAGNESIA BICARB.' CONTAINS NO ARSENIC.**OUR REPUTATION YOUR GUARANTEE****INDEX and BUYERS' GUIDE**

See pages 5 to 9.

**1912** Mixing, Grinding &  
Sifting Machines.**60 SIZES & PATTERNS.**  
Hand or Power.Made by Chemists for the  
Chemical Trade.*Send for List.***Comet Chemical  
Company, Ltd.**36 Victoria Buildings  
**MANCHESTER.**



## From "THE ANTI-CUTTING RECORD."

¶ "It is now nearly 11 years since the movement which resulted in the formation of the P.A.T.A. was inaugurated. Amongst the first of the fighters for protected profits was Mr. Davenport, the proprietor of **COLLIS BROWNE'S CHLORODYNE**. At a time when the Association had a few supporters and looked rather like being crushed by the opposition which it encountered, Mr. Davenport's assistance came very opportunely, and dealers in Chlorodyne might well bear this fact in mind when selecting a brand to sell to their customers. We think that those who helped to lay the foundation of the P.A.T.A. are entitled to special consideration at the hands of those whom the Association has so much benefited. It should always be remembered that the pioneers ran much heavier risks than those who have come in on the flood-tide after the success of the movement was assured, although of course we are in no sense despising or underrating the importance of more recent converts to the Association, and do not for a moment suggest that they should not be supported. All those proprietors who have stood by the P.A.T.A. through thick and thin ought to be put in an exceptional position in comparison with those who have never done a thing for the trade. If chemists *must* substitute (and it really seems as if some of them can hardly restrain their propensities), surely they might confine their operations to the goods of those makers whose motto is 'Self, and self alone.' We think no fair-minded retailer will, after full reflection seriously blame the P.A.T.A. Council for insisting that substitution must cease when the proprietor loyally does his part."

**Purchasers must NOT be asked to sign a Poison Book.**

# Dr. J. Collis Browne's Chlorodyne

**The ORIGINAL and ONLY GENUINE.**

"The original Chlorodyne as manufactured from the recipe of Dr. J. Collis Browne is perhaps in greater demand now than it has ever been before. It has been on the P.A.T.A. List since 1897, as readers are no doubt aware. J. T. DAVENPORT, Ltd., 117 Union Street, S.E., have been the sole manufacturers of this article for upwards of forty years."

*Pharmaceutical Journal*, October 22, 1904.

### PRICES AND TERMS.

Size	...	...	...	...	1/1½	...	2/9	...	4/6	...	11/-
Minimum Retail Price	...	...	...	...	1/-	...	2/6	...	4/-	...	10/-
Price to Trade (per dozen)	...	...	...	...	10/-	...	26/-	...	42/-	...	104/-

Discount 5 per cent. on £1 worth, 10 per cent. on £5 worth. Packages charged 3d. on £2 parcels or under, and 1d. for each extra £1 worth, and are not returnable. Carriage forward. Terms: Cash with order. Most Wholesale Houses supply on equal terms.



**A. THÉRON Fils, Bordeaux.****92, 95, 98, 99%****1st White Powder****WITH USUAL  
GUARANTEES.****FRENCH CREAM OF TARTAR****SOLE  
AGENTS FOR****GREAT BRITAIN & COLONIES :****H. AUTRAN Ltd.****4 GEORGE LANE, EASTCHEAP, LONDON, E.C.**

Telephone 1—861-862 Avenue.

Telegraphic Address: "AUTRAN LONDON."

**GOLD MEDAL, Cape Town International Exhibition, 1904-5.****LIQ. SANTAL. FLAV. c. BUCHU ET CUBEBA "**  
**(HEWLETT'S).****THE ORIGINAL PREPARATION**

Many pharmacists have assured us that even when the name "HEWLETT'S" is not appended to the above title they invariably dispense HEWLETT'S preparation, as they know from experience that it is the best, that it keeps indefinitely, and universally gives satisfaction, whilst imitation preparations vary so considerably, not only from the original but from each other, that patients notice the difference, and complain.

Price 11s. per lb., packed, for dispensing only, in 10, 22, 40, and 90 oz. Bottles.

INTRODUCED AND PREPARED ONLY BY

**G. J. HEWLETT & SON, Ltd., Wholesale and Export Druggists**  
35 TO 42 CHARLOTTE STREET, LONDON, E.C.

## BRONCHIAL WAFERS

A few years ago, in response to a demand for a high-class concentrated Bronchial Wafer, we perfected the finest known formula and introduced it into the market

**ON A LARGE SCALE.**

We spared no effort to make this wafer

**THE BEST OF ITS CLASS**

in therapeutic efficacy—in instantaneous effect—in perfection of form, with the result that to-day, although the number of "Wafers" on the market is legion, our make is

**UNSURPASSED and UNAPPROACHED.**

Suitable alike for the highest class and the humblest trade, these Wafers offer superlative value to the consumer, and are the means of bringing numbers of customers to the Pharmacy, orders being repeated time after time.

In past years we have sold them in millions, and the sale is ever increasing.

Price in bulk: 3/6 per lb.  
28 lbs., 3/4 less 5/-  
1 cwt., 3/2

Card Boxes, 2/10 per doz.  
Artistic Tins for the waistcoat } net.  
pocket, 2/- per doz.

These Wafers average 120 to the ounce.

The card box contains about 90 Wafers.

The small tin contains about 60 Wafers.

Hand-cut—Potential in effect—of beautiful finish.

**RAIMES & CO., Wholesale Druggists, YORK.**



**WRIGLEY'S**  
**SPEARMINT** → **WRIGLEY'S**  
**SPEARMINT** → **WRIGLEY'S**  
**SPEARMINT** →

# The Only Largely Advertised Chewing Gum in England is

RETAILS  
**2½d.**  
PER PACKET



RETAILS  
**2½d.**  
PER PACKET

Chemists all over England are stocking and selling **WRIGLEY'S SPEARMINT** in great quantities. Are you?

You will find **WRIGLEY'S SPEARMINT** Pepsin Gum a most profitable side line. In our advertising we are telling the public what **WRIGLEY'S SPEARMINT** really is; expounding its benefit to the teeth and digestion, its soothing action upon the nerves, &c. Also we are telling exactly what it is made of—which has never been done for Chewing Gum before.

**Costs  
You  
2/3<sup>d</sup> per  
Box.**

**WRIGLEY'S** **SPEARMINT** →

sells at sight.

Stocked by Butler & Crisp;  
Sangers; May, Roberts; John  
Thompson, and all wholesalers.

**WRIGLEY'S, LTD.**  
164 Piccadilly, London, W.

**Sells  
Quickly  
at  
4/2<sup>d</sup>.**



**WRIGLEY'S**  
**SPEARMINT** → **WRIGLEY'S**  
**SPEARMINT** → **WRIGLEY'S**  
**SPEARMINT** →



# PRICES ISSUED WEEKLY.

Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

- A**cid Salicyl. pulv., 7 lbs. @ 1/3 lb.; phys. pure, 1 lb. @ 3/1 lb.  
 \* Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.  
 \* Tannic, B.P., 7 lbs. @ 2/4 lb.  
 \* Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/1½ lb.; parv. ¼ d. lb. extra.  
 Adeps. Benz., B.P., 28 lbs. @ 9½ d. lb.; 7 lbs. @ 9½ d. lb.  
 Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.  
 Ammon. Carb. lump, 3 cwt. @ 4½ d. lb.; 28 lbs. @ 5½ d. lb.; 7 lbs. @ 5½ d. lb.; powder, ¼ d. lb. extra.  
 Ammon. Chlor., 99% pulv., 1 cwt. @ 33/- cwt.; 7 lbs. @ 4d. lb.; Batteries, 4/- cwt. extra.  
 Amyli Pulv., 10 cwt. @ 12/6 cwt.; 2½ cwt. @ 13/6 cwt.; 1 cwt. @ 15/- cwt.  
 Aniseed, English ground, 1 cwt. @ 44/- cwt.; 7 lbs. @ 5½ d. lb.  
 Antim. Nig. Pulv., 1 cwt. @ 24/- cwt.; 14 lbs. @ 30/- cwt.  
**B**ismuth, P.B. Carb., 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb., subnit., 1/- lb. less.  
**C**alcii Carb. præcip., 5 cwt. @ 13/- cwt.; 1 cwt. @ 16/- cwt.; 28 lbs. @ 21/- cwt.  
 \* Hydras, P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.  
 \* Hypophosph. Pur. P.B., 1 lb. @ 2/3 lb.  
 \* Iodid., 1 lb. @ 13/8 lb.  
 Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb., ¼ oz. or ½ oz. 7 lbs. @ 2/- lb.; Crude, good white, about 92% as imported, 140 lbs. @ 1/7 lb.; 28 lbs. @ 1/8 lb.  
 Ext. Hyoscyam, Solid, B.P., 3 lbs. @ 4/9 lb.; 1 lb. @ 5/1 lb.  
 \*Ext. Ipecac. Liq., P.B., 5 lbs. @ 14/9 lb.; 1 lb. @ 15/9 lb.  
 Ext. Maltic. Ol. Jecoris, 10 lbs. @ 5½ d. lb.  
 \*Ext. Nucis Vom. Liq. P.B., 5 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.; solid, 5 lbs. @ 2/9 lb.; 1 lb. @ 3/- lb.  
 Ext. Quassia, Solid, 7 lbs. @ 6/- lb.; 1 @ 6/4 lb. [4/6 lb.]  
 Ext. Sarsæ Co. Solid, 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.  
**F**erri Ammon. Cit., P.B., 28 lbs. @ 1/6½ lb. 7 lbs. @ 1/7½ lb.  
 Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.  
 Ferri et Quininae Cit. P.B., 500 ozs. at 4½ d. oz.; 100 ozs. @ 4½ d. oz.; 25 ozs. @ 4½ d. oz.  
 Fol. Hyoscyam, Bien., 7 lbs. @ 5/5 lb.; pulv. 4/6 lb.  
**G**lycerin. Opt., DD., 1.260 P.B., 1 cwt. @ 97/- cwt.; 56 lbs. @ 98/- cwt.; 12 lbs. @ 1/1 lb.  
**L**in. Camph. P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ 1/- lb.  
**M**ag. Calc. Levis. 56 lbs. @ 8d. lb.; 5 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.  
 Mag. Calc. Pond., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.  
 Mag. Carb. Pond., 56 lb. @ 6½ d. lb.; 7 lbs. @ 7½ d. lb.  
 Mag. Carb. Levis., 1 cwt. @ 25/- 7 lbs. @ 4d. lb.  
 Mag. Sulph., fine druggists', B.P., 1 cwt. @ 6/9 cwt.  
 Manna, Good Flake, 14 lbs. @ 5/3 lb.; 7 lbs. @ 5/6 lb.; 1 lb. @ 5/9 lb.  
 \*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½ d. lb.; 6 lbs. @ 7½ d. lb.  
**P**apain, 1-80, 1 lb. @ 18/6 lb.; 1 oz. @ 1/7 oz.  
 Paraffinum Durum B.P., 2 cwt. @ 2½ d. lb.; 1 cwt. @ 3½ d. lb.; 56 lbs. @ 3½ d. lb.; 7 lbs. @ 4½ d. lb.; Mollé Flav., B.P., 3½ cwt. @ 18/6 cwt.; 1 cwt. @ 18/- cwt.; 28 lbs. @ 3½ d. lb.; 7 lbs. @ 4½ d. lb.; Alb. B.P., 3½ cwt. @ 56/- cwt.; 28 lbs. @ 7d. lb.  
 Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.  
 1 henacetin, P.B., pulv., 1 cwt. @ 2/11 lb., 7 lbs. @ 3/1 lb.; 1 lb. @ 3/3 lb.  
 Phenazone, P.B., 7 lbs. @ 6/11 lb.; 1 lb. @ 7/6 lb.  
 Phenolphthalein, 7 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.  
 Plumbi Acetas, Druggists', 1 cwt. @ 34/6 cwt.; 7 lbs. @ 5d. lb.; Powder, 1½ d. lb. extra.  
 Potas. Acetas, Gran. P.B., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.  
 Potas. Bicarb. pulv., 1 cwt. @ 32/6 cwt.; 7 lbs. @ 4d. lb.  
 Potass. Brom. P.B., 1 cwt. 1/7 lb.; 28 lbs. @ 1/7½ lb.; 7 lbs. @ 1/9 lb.  
 Potas. Chlor. Pulv., 1 cwt. @ 4d. lb.; 7 lbs. @ 5d. lb.  
 Potass. Cit., B.P., 7 lbs. @ 1/8 lb.  
 Potass. Iod. P.B., 1 cwt. @ 10/- lb.; 14 lbs. @ 10/1 lb.; 3 lbs. @ 10/2 lb.  
 Potass. Metabisulph., 1 cwt. @ 35/6 cwt.; 7 lbs. @ 6d. lb.  
**Q**uassia Chips, 1 cwt. @ 12/6 cwt.; 28 lbs. @ 2d. lb.  
 Quinine Bisulph 100 oz. @ 9½ d. oz.; 25 oz. @ 10½ d. oz.; 10 oz. @ 11½ d. oz.  
 Quinine Ethyl Carb. (Tasteless), 100 oz. @ 1/8½ oz.; 10 oz. @ 2/- oz.

## BISMUTH.

## COCAINE.

## OINTMENTS.

- Cantharides, Russian, 7 lbs. @ 4/1 lb.; powder 2d. lb. extra.  
 Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 14/- cwt.; 28 lbs. @ 2d. lb.  
 Carmine, Finest, 1 lb. @ 18/- lb.; No. 2, 1 lb. @ 13/- lb.  
 Cera Alba, B.P., White Moons, 1 cwt. @ 1/7 lb.; 28 lbs. @ 1/8 lb.; 4 lbs. @ 1/8½ lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/7 lb.; 4 lbs. @ 1/8 lb.; 1 oz., ¼ oz. Tabs., 7 lbs. @ 1/8 lb.  
 Chloral Hydras Crys. B.P., 7 lbs. @ 3/1 lb.; 1 lb. @ 3/6 lb.  
 \*Chlorodyne, 5 lbs. @ 2/- lb.  
 \*Chloroform, pure B.P., 12 8-lbs. @ 1/5½ d. lb.; 8 lbs. @ 1/6½ lb.; 6 1-lb. bottles. @ 1/8½ lb.  
 Chlorophyll, 7 lbs. @ 5/- lb.; 1 lb. @ 5/9 lb.  
 Cocaine Hydrochlor., B.P., 25 ozs. @ 7/5 oz.; 4 ozs. @ 7/11 oz.; 1 oz. @ 8/6 oz.  
 Cream Tartar, 98% powder, 1 cwt. @ 88/- cwt.; 7 lbs. @ 11d. lb.  
 Creasote, Beechwood, P.B., 22 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.  
 \*Ext. Belladonnæ Liq., B.P., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/8 lb.; solid, 7 lbs. @ 2/10 lb.  
 Ext. Cascara Sæ Liq., B.P., 1 cwt. @ 1/0½ lb.; 10 lbs. @ 1/2 lb.  
 \*Ext. Ergot L. q. P.B., 5 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.  
 Ext. Filicis Liq., P.B., 9 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.  
 Ext. Gent., P.B., Solid, 1 cwt. @ 9½ d. lb.; 7 lbs. @ 10½ d. lb.  
 \*Ext. Glycyrrh. Liq. B.P., 6 lbs. @ 1/4½ lb.  
 \*Ext. Hammamelis Liq., P.B., 5 lbs. @ 3/5 lb.

- N**apthalene Candles or Balls, 1 cwt. @ 12/6 cwt. 56 lbs. @ 14/6 cwt.; 28 lbs. @ 16/- cwt.  
 Nux. Areca, 1 cwt. @ 27/6 cwt.; 7 lbs. @ 3½ d. lb.; powder, English ground, @ 59/- cwt.; 7 lbs. @ 7½ d. lb.  
**O**l. Amygdal. Ang., B.P., 9 lbs. @ 2/4 lb.  
 Ol. Amygdal. Essent. Artificial, free from Chlorine, 5 lbs. @ 3/- lb.; 1 lb. @ 3/9 lb.  
 Ol. Anethi Ang. B.P., 1 lb. @ 12/- lb.  
 Ol. Anisi, E.I., 66 lbs. @ 7/- lb.; 16½ lbs. @ 7/3 lb.; 4½ lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.  
 Ol. Cajuput, B.P., 21½ oz. Bots. @ 2/7 lb.  
 Ol. Camphor. Essent., White, 80 lbs. @ 51/- cwt.; 40 lbs. @ 56/- cwt.; brown, 80 lbs. @ 90/- cwt.; 40 lbs. @ 95/- cwt.  
 Ol. Caryoph. Ang., B.P., 9 lbs. @ 5/5 lb.; 4½ lbs. @ 5/7 lb.  
 Ol. Cassia, 16 lbs. @ 4/- lb.; 6 lbs. @ 4/5 lb.  
 Ol. Cinnam. B.P., 1 lb. @ 28/- lb.; 1 oz. @ 2/2 oz.  
 Ol. Citronelle, 9 lbs. @ 1/10 lb.  
 Ol. Cocoa Nucis, finest White, 80 lbs. @ 55/- cwt.; 40 lbs. @ 57/6 cwt.  
 Ol. Eucalypt., B.P., 1 cwt. @ 1/8½ lb.; 28 lbs. @ 1/9½ lb.; 9 lbs. @ 1/10 lb.  
 Ol. Morrhuæ, Nov. 1911, finest non-freezing, 25 gall. tin-lined barrels @ 70/- per barrel; 2-gall. tins @ 8/- each.  
 Ol. Nucis Pallid., 45 galls. @ 3/8 gall.; 2 gall. tins @ 9/- each.  
 Ol. Olivæ P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 4/10 gall.; 2 gall. tins @ 5/6 gall.; fine cream, 9 lb. tins @ 7/2 each.  
 Oxymel Scillæ, B.P., 5 cwt. @ 31/- cwt.; 1 cwt. @ 34/- cwt.; \*7 lbs. @ 6d. lb.

- Quinine Hydrobromas or Salicylate, B.P., 100 oz. @ 1/1½ oz.; 25 oz. @ 1/2½ oz.; 10 oz. @ 1/3½ oz.  
 Quinine Hydrochlor., B.P., 100 ozs. @ 1/0½ oz.; 25 ozs. @ 1/1 oz.; 10 ozs. @ 1/3  
**R**ad. Gentian, English Ground, 1 cwt. @ 37/- cwt.; 7 lbs. @ 5d. lb.  
 Rad. Glycyrrh., English Ground, 1 cwt. @ 24/6 cwt.; 7 lbs. @ 3½ d. lb.  
 Rad. Jalap. English Ground, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.  
 Rad. Rhei, E. I., English Ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7½ lb.  
**S**hellac (Orange), 1½ cwt. @ 80/- cwt.; 7 lbs. @ 10d. lb.  
 Sodii Bromid. P.B.; 1 cwt. @ 1/11½ lb.; 7 lbs. @ 2/1½ lb.  
 Sodii Salicyl. Pulv., 7 lbs. @ 1/6 lb.; phys. pur.; 28 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.  
**T**urpentine (Best American), 1 gal. tins @ 3/3 each; Venice, Genuine, 40 lbs. @ 1/4½ lb.; 9 lbs. @ 1/7 lb.; Venice kind 1 cwt. @ 23/- cwt.; 14 lbs. @ 5d. lb.  
**U**ng. Acid, Boric, P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4½ d. lb.  
 \* Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.  
 \* Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.  
 \* Hydrargyri, B.P., 28 lbs. @ 1/10 lb.; 7 lbs. @ 2/- lb.  
 \* Zinci Oxid. Benz. B.P., 28 lbs. @ 8d. lb.

\*Minimum quantity at these prices: Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

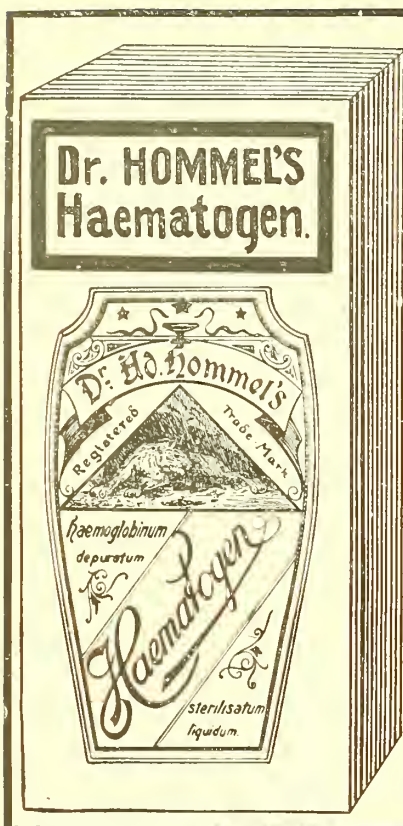
NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers. Goods carriage forward; all packages free; Export cases extra.

# ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.





# Dr. HOMMEL'S HÆMATOGEN The Original Hæmatogen.

Is that prepared by Dr. Hommel and endorsed by the Medical Profession.

It should be noted that we have **Exclusive Law Rights** to the names "**Dr. Hommel's Hæmatogen**," and "**Hommel's Hæmatogen**," and that these rights will be legally maintained if necessary.

Therefore when you are asked for "**Dr. Hommel's Hæmatogen**" or "**Hommel's Hæmatogen**" nothing else may be supplied but our well-known preparation of Hæmatogen which has been recommended and clinically proved by the Medical Profession for the last **TWENTY YEARS**.

Further our Hæmatogen has so long enjoyed an unrivalled sale in this country that doctors and others frequently refer to it simply as "**Hæmatogen**" and in such cases **it is our "Hæmatogen" that is required.**

Dr. Hommel's Hæmatogen has been on the P.A.T.A. List for the last 14 years, and we confidently rely on the support of Chemists.

**HOMMEL'S HÆMATOGEN, A.G. Zurich.**

Wrappers and Advertising Matter supplied on application to  
**GERTH VAN WYK & CO., 36 & 36a St. Andrew's Hill, London, E.C.**  
Sole Agents for the United Kingdom, Ireland, and the British Colonies.

## WOODWARD'S GRIPE WATER or Infants' Preservative.

*For the Familiar Ailments of Infants and Young Children.*

**Price 1s. 1½d. per Bottle.**

NEW YORK: Fougere & Co. MONTREAL: Lymans, Ltd.

Makers: **W. WOODWARD, Ltd., NOTTINGHAM, ENGLAND.**

# GALENICALS

FROM CHEMICALLY AND PHYSIOLOGICALLY TESTED DRUGS.

**Willows, Francis, Butler & Thompson, Ltd.,**  
**40 Aldersgate Street, LONDON, E.C.**



**Chininfabrik Braunschweig,**  
BUCHLER & CO., BRUNSWICK, GERMANY.

**QUININE. COCAINE.**  
**RADIUM. ZINC SULPHIDE-SCREENS**

*Agent for Great Britain:— H. Buchler, Dunster House, Mincing Lane, E.C.*

**ZEMATONE**

POWDERS and CIGARETTES for

**ASTHMA**

show a profit of 42%.

2/6 size ... .. 21/- per doz. nett.

1/6 size ... .. 13/- per doz. nett.

1 1/4% for cash 7 days.

ON P.A.T.A. LIST.

ZEMATONE CO., King Street, NOTTINGHAM.

**H. E. KERSHAW, Ltd.**

131 Curtain Road, LONDON, E.C.

IMPORTERS OF

**SHELLAC**

Of all kinds.

Manufacturers of

**WHITE SHELLAC**

**THE LEADING LINE IN PATENTS**

**QUICKEST SALES**

**BEECHAM'S PILLS**

May now be had in **£5** Lots, at Lowest  
Prices, Carriage Paid. Packages Free.

**ORDERS** must be accompanied by Cash. Cheques to be  
made payable to Thomas Beecham, and crossed  
"Parr's Bank, Limited, St. Helens."

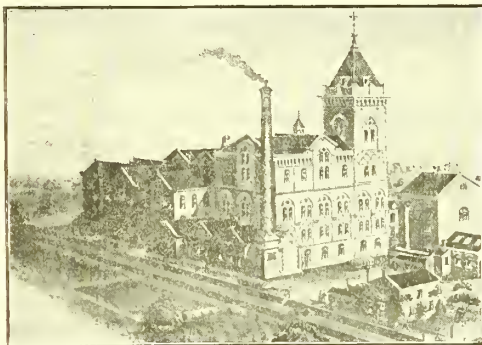
**PRICES.**—Beecham's Pills, 13½d. size (56 pills) ... .. 9/6  
" 2s. 9d. " (168 " ) ... .. 25/-

PER DOZEN

**ADVERTISING MATTER** to suit Retailers' require-  
ments will be sent on application.

**Address—THOMAS BEECHAM, ST. HELENS, LANCASHIRE.**





MILLS AND MALT EXTRACT REFINERY.

THE  
**“JOHN BULL”**  
 and **“PACO”**  
**MALT EXTRACTS**

*Absolute Purity. High Diastasic Strength. Regularity.*

WELL KNOWN AS THE  
**BEST MALT EXTRACTS ON THE MARKET**

Enquiries Solicited for This Season's Contracts.

**PAINE & CO., Ltd.,** Malt Extract Works, **ST. NEOTS, HUNTS.**

TRADE MARK.



Telegrams:  
 “RENILREB LONDON.”

Telephones:  
 LONDON WALL 507.  
 CITY 998.

ESTABLISHED 1850.

For STERLING VALUE IN

**HOT WATER BOTTLES  
 CHEST PROTECTORS  
 BODY BELTS**

WRITE FOR SAMPLES AND QUOTATIONS TO

**ARTHUR BERLINER,**

*Surgical Dressing Manufacturer,*

15 and 17 WORSHIP STREET, **LONDON, E.C.**  
 2a TABERNACLE STREET,

Orders promptly executed  
 from Stock.

**LINTS,  
 BANDAGES,  
 GAUZES,  
 TISSUES,  
 CELLULOSE,  
 WOOLIOSE,  
 AND  
 SUNDRIES.**

**Dr. BOW'S LINIMENT, LTD.**

On P.A.T.A. List.

**DR. BOW'S  
 LINIMENT.**  
 PREPARED BY HIS GRANDSON.



Minimum Retail Price:  
 2/6 & 1/1<sup>1</sup>/<sub>2</sub>

The Gothic window (shown above) and also the name “Dr. BOW'S LINIMENT” are registered Trade Marks and appear on every bottle, and anyone using the name or any similar name or any liniment or similar preparation not prepared by the Company is liable to be proceeded against.

The above Label in blue appears on the outside wrapping of every bottle.

**Dr. BOW'S LINIMENT, Limited,** 8 Union Marine Buildings, LIVERPOOL.  
 7 South Gray Street, EDINBURGH.



**Alkaloids & Fine Chemicals**

Acid Acetyl Salicylic  
Acid Carboic Crystals  
(for Export)

Aconitine  
Apomorphine  
Arecoline  
Atropine  
Benzonaphthol  
Bismuth Salts

Caffeine  
Cocaine  
Codeine  
Colchicine  
Coumarin  
Creosote (Beechwood)  
Creosote Carbonate  
Eserine (Physostigmine)

**Acid Carboic Cryst. 'Roche'**

(For Export only).

Guaiacol Carbonate  
Guaiacol Liquid  
Homatropine  
Hyoscine  
Hyoscyamine  
Morphine and Salts  
Morphine Diacetyl  
Narcotine  
Phenacetin

Phenolphthalein  
Pilocarpine  
Saponin  
Scopolamine  
Sparteine  
Strychnine and Salts  
Theobromine  
Veratrine  
Yohimbine (for Export)

**Specify 'Roche'**  
Your inquiries are Solicited.

The Hoffmann-La Roche Chemical Works, Ltd.  
7 & 8 IDOL LANE, LONDON, E.C.  
Telephone—7270 CENTRAL. Telegrams—"HOFROCHE LONDON."

BASLE, GRENZACH, MILAN, NEW YORK,  
PARIS, ST. PETERSBURG, VIENNA.

**TRY**

**"Electro"**  
Specialities.

**Sulphite of Soda  
Crystals.**

**Hyposulphite of  
Soda.**

**Muriate of  
Ammonia.**



It is worth your while to send for  
Samples and Price.

TELEGRAMS: "ELECTRO."

TELEPHONE No. 21.

**THE ELECTROLYTIC ALKALI CO. LTD.**  
MIDD-LEWICH, CHESHIRE.

**ROBERT BLACKIE**

Wholesale and Export Manufacturing Chemist.

Head Office, Mills and Laboratory:—

**SHEN WORKS, Tower Bridge Road, LONDON, S.E.****SPUN OINTMENTS**

impalpable and absolutely uniform,  
are now the standard of quality.

(Regd. Trade Mark.)

**And CREAMS of every kind for HOME and EXPORT trade.**

Spun Ointments are the production of Shen Works only.

All B.P. Ointments are now spun.

**SHEN YENA POWDERS.**

IN FOUR SIZES.

Discount for large quantity.

Bijou - 18/- per gross. Large - 48/- per gross.  
Small - 33/- " " Jumbo - 88/- " "

**HAIR DYES.**

IN ALL SHADES.

THE BILTON ... 3/6 & 6/- doz.  
THE CARTOL ... 6/- "  
THE REGENT ... 10/- "

**LIME CREAMS.**

IN ALL SIZES.

With various labels and varied finish. A homogeneous  
Pure White Cream, which keeps indefinitely and will  
not go thick or separate.

White French Limes.

PRICES (per gross): 3 oz. 21/- to 24/-, 4 oz. 24/-  
to 30/-, 6 oz. 30/- to 36/-, 8 oz. 40/- to 48/-.

**TOOTH POWDERS.**

For every class of Trade. In bulk or packed in tins.

**CHEMICAL FOOD. CITRATE OF MAGNESIA. EFFERVESCENT SALINE.**  
**HAZEL FOAM. SYR. HYPOPHOS. CO. SYRUPS (CONCENTRATED).**





IN GLASS

## BRAND'S ESSENCE OF BEEF AND OF CHICKEN FOR INVALIDS.

Invaluable in all Cases of Exhaustion and Weak Digestion.

BRAND & CO., LTD., "Mayfair Works," 78 South Lambeth Road, Vauxhall, LONDON, S.W.



By Appointment  
Liquor  
Distillers to  
H.M. The King.

# JUNORA

## WINE OF HEALTH

A glass of this dry appetising wine is becoming one of the most popular cocktails.  
It creates appetite and strengthens and invigorates the nerves.

HUMPHREY TAYLOR & CO., Ltd. (Estab. 1770), 45 New Oxford Street, London, W.C.

## GLASS BOTTLES

OF EVERY DESCRIPTION FOR  
CHEMISTS, DRUGGISTS, PERFUMERS  
AND KINDRED TRADES.

PRICES ON APPLICATION.

**J. B. GAASCH, ANTWERP, BELGIUM.**

Cables—BOTTLE-ANTWERP.

Telegraphic Address: "Champagne Manchester."

Telephone: 138 Pendleton.

**B. ROBINSON & Co., LTD., PENDLETON, MANCHESTER.**

Established  
1855.

# ORIGINAL

Excise Drawback on  
Export Orders.

# CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor Aurant.	8/6 "	" Pimentæ "	4/- "
" Anisi	4/- "	" Sambuci Conc.	8/6 "	" Pulegii	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosæmarini	4/- "
" Carui	4/- "	" Menth. Pip. Conc.	4/- "	" Rosæ	8/6 "
" Cinnam. Ver. Conc.	6/- "	" Ang. Conc.	6/- "	" Virgin "	10/6 "

The above may be had in ½-lb., ¼-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.  
Each Bottle has the Inventor's Protection Label over the Cork, without which none are genuine.

# PURE ORANGE WINE

(VINUM AURANTII, B.P. 1898).

Samples of any of the above, sent free on application.



# THE CHEMIST & DRUGGIST

WINTER ISSUE

PRICE LISTS  
& CIRCULARS  
INSERTED

*For terms  
apply to  
The Publisher  
42, Cannon St.  
London.*

E.C.

Jan. 25, 1913

ESTAB. 1859



# TO SWELL YOUR BANK BALANCE

## INCREASED RETURNS—THE ONLY WAY.

What nearly every Chemist to-day feels *most in need of* IS *INCREASED RETURNS*. His profits are not what they were, his expenses constantly tend upwards, and competition was never so keen.

Dagnosis is easy, the remedy not always apparent, for to increase returns more custom must be *brought in*.

**DROP  
US  
A  
POST-  
CARD  
TO-DAY**

for Sample  
Packet  
and Terms.

We are prepared to show you how we will  
**help you to largely increase your returns.**

## IT WILL COST YOU NOTHING !

Then why not investigate ?

SUMNERS *Typhoo* TEA LIMITED.

HEAD OFFICE. (FOR ALL CORRESPONDENCE)

CASTLE ST BIRMINGHAM.

LONDON { CLEARING OFFICE: LLOYDS AVENUE HOUSE: E.G.  
BONDED STORES: COMMERCIAL ROAD: E.



# CEREGEN

THE PROTEID-PHOSPHATE NERVE<sup>(Regd.)</sup> FOOD.  
**OVER 50% PROFIT ON RETURN.**

Ceregen once introduced secures you regular and very profitable customers.

**JOHN BELL, HILLS & LUCAS Ltd., OXFORD WORKS, Tower Bridge Rd., S.E.**

PURE EGG  
**LECITHIN**

## LECITHIN EX OVO LECITHIN-ALBUMEN POWDER

For the manufacture of Tablets, &  
Chemical Foods, Nerve Tonics, etc.

## LECITHIN FOOD PREPARATIONS

Prepared with 2½%, 5%, or 10% of PURE Lecithin  
in bulk, or in boxes or cartons.

LECITHIN TABLETS, DRAGEES, PILLS or CHOCOLATE,

Prepared by Chemical Works "VICTORIA," Berlin, S.W.

Sole Agent for U.K.:

**HUGO LORENZ, 7 & 8 Idol Lane, London, E.C.**

Write for Pamphlets. Tel. Nos.: Avenue 5945; Central 12641.

## INDEX and BUYERS' GUIDE

See pages 5 to 9.

## LECITHIN Cocoa Tablets

EXCELLENT RETAILING LINE.

Containing 0.1 Lecithin.

INGREDIENTS: Lecithin, Magnes. Carb.; Sac. Phosp.; Cocoa;  
Sach. Lact.; Sach. Alb.

In Boxes of 40 Tablets, 7/3 per dozen. Retail Price, 1/9 each.  
" 100 " 14/6 " " 3/6 "

**MARGONAL CO., BERLIN SW. 47.**



# Prompt Sales Increasing Demand Quick Turnover

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis" because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

COLEMAN & CO., LIMITED,  
Wincarnis Works, Norwich.



## VITTEL

VOSGES,  
FRANCE.

*Vittel Spa has many attractions for visitors.*

*Full particulars on application.*

**GRANDE SOURCE.**

**SOURCE SALÉE.**

The TABLE WATER for Arthritis, Gout, and Kidney Troubles. . . . .

The TABLE WATER for Constipation, Complaints of the Liver and Stomach, Gall Stones, Glycosuria, &c. . . . .

**10,000,000 BOTTLES SOLD ANNUALLY.**

**VITTEL, 12 Mark Lane, LONDON, E.C.**

Wholesale Drug Houses are invited to write to

## MELROSE-DROVER, LTD.

LEITH,

for Prices and Samples of NON-DEPOSITING

## ORANGE WINE

B.P. 1898.

considered the best in the Market due to superior quality. Specially prepared also for exportation.

## Licoricine

ACTS LIKE MAGIC

For Coughs, Colds, Asthma, Bronchitis, Influenza, Whooping Cough, &c.

7½d. size...	...	...	6/3 per doz. net.
1/1½ "	...	...	10/- " "
2/9 "	...	...	25/- " "

£2 worth Carriage paid. £5 worth and upwards, subject to 5% discount. Minimum Retail Prices, 7½d., 1/-, and 2/6.

N.B.—This allows the Chemist a net profit of 26%, or more than 3d. in the 1/- on £5 lots.

**MANDALL & CO., LTD., Manufacturing Chemists, Tower Works, Stockton-on-Tees.**

Proprietors of **Licoricine** "RED BOTTLE OR ST. PETER'S OIL," and "SPASM DROPS."

Agents for } EVANS SONS LESCHER & WEBB, LTD.,  
Ireland } LIVERPOOL.



# "BERKEFELD" FILTERS

GERMPROOF

Awarded 3 GRAND PRIX and 1 DIPLOMA OF HONOUR  
at the BRUSSELS EXHIBITION, 1910.



SIMPLE  
IN  
CONSTRUCTION.  
MOST  
EASILY CLEANED.

Made in a variety of patterns  
suitable for all purposes.

A VERY  
PROFITABLE LINE  
FOR CHEMISTS.

Write for Illustrated Catalogue.

THE  
BERKEFELD FILTER

CO., Ltd.,  
121 OXFORD STREET, LONDON, W.

# "WINCO" OIL & SPIRIT BARREL PUMP

IN VARIOUS SIZES.

SIMPLE. RELIABLE.  
DURABLE. CHEAP.

Best Workmanship.

In IRON or BRASS.

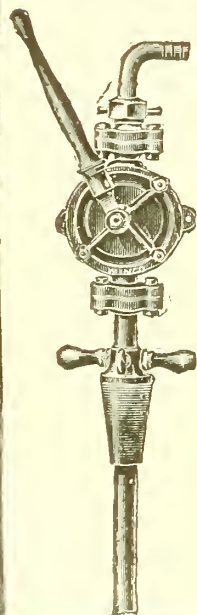
Can be used for any liquid,

WINE, SPIRITS,

:: OIL, :: ::

PETROLEUM, &c.

Ask for Illustrated Price List "C."



# HORLICK'S MALTED MILK

(In Powder Form).

No Cooking. Prepared instantly by stirring  
vigorously in water, hot or cold

## THE FOOD that BRINGS RESULTS

The first thought of experienced dietitians when  
selecting a palatable, nourishing, easily assimilated food.

¶ The wholesome, invigorating principles of  
pure milk and choice malted grain, so prepared  
as to be properly assimilated in the feeblest  
conditions.

¶ Used more extensively every year in the  
feeding of infants, and as a supplementary  
nutrient for growing children. Also with in-  
creasing confidence by adults as a table beverage  
in the home—superior to tea or coffee at meals—  
and an efficient corrective of insomnia taken hot  
before retiring.

Endorsed by the Medical Profession.

Recommended and sold by all Chemists, in three  
sizes: 16 26 and 11/-

ADVERTISING MATTER PREPAID ON REQUEST.

**Horlick's Malted Milk Co.**  
SLOUGH, BUCKS.

# YOU SHOULD STOCK MERSEL'S FOOD

FOR INFANTS, INVALIDS, AND THE AGED.

MERSEL'S FOOD is a preparation of pure malted  
wheat. It is an ideal food for infants, invalids, and  
the aged, being easily digested and retained by the  
weakest stomachs. Albert E. Bell, the well-known  
analyst, says:—"It is a complete food of high  
nutritive value." Put up in 1/- tins only.

# KNO-SKA OINTMENT

(NO-SCAR)

FOR ECZEMA, HÆMORRHOIDS, ETC.

KNO-SKA is an antiseptic and emollient ointment of  
wonderful efficacy. It is indicated in eczema, hæmor-  
rhoids, psoriasis, boils and skin troubles generally.  
The remarkable success which attends the use of  
KNO-SKA is making it increasingly popular all over  
the country. Put up in collapsible tubes, in two  
sizes only, at 1/1½ and 2/9.

Write for particulars of

MERSEL'S FOOD AND KNO-SKA BONUS SCHEME.

A. J. WHITE, Ltd., 35 Farringdon Road, LONDON.

N.B.—Mother Seigel's Syrup in TABLET FORM is  
a line which is increasing in popularity DAILY.



## A POWERFUL NERVE AND BRAIN FOOD

**WISEM**  
(Seed of Strength)

**W**ISEM consists of milk casein and whey powder, with 3% of pure lecithin-ovo and 3% of glycerophosphate of soda. The casein used is made from milk produced on some of the finest pastures in the Kingdom, by a special process which yields a pleasant flavour, and retains the proteins in a soluble state. It is also rich in soluble organic phosphorus.

**W**ISEM is made up in the form of tablets, which are eaten like biscuits. These tablets can be taken at any time and under any circumstances, and are obviously more convenient than preparations which have to be dissolved in hot water, milk, &c. It has an agreeable flavour which is distinctly superior to that of any other casein preparation.

**WISEM** is being largely and effectively advertised in the great national newspapers.

**WISEM** is also extensively advertised in the medical journals and doctors are largely prescribing it.

Beautiful showcards and interesting literature will be supplied to the trade.

**Price 13/6 per dozen boxes.**

P.A.T.A. Minimum re-selling price 1/6 per box.

**APLIN & BARRETT, etc., LTD.,** Yeovil, Somerset,  
and 33 Park Road, Battersea Park, London, S.W.

(WHOLESALE DISTRIBUTORS FOR ST. IVEL, LTD.)

**Lofthouse & Saltmer, Ltd.**

— Wholesale and Export Drug —  
Merchants, Manufacturing Chemists,

**HULL,**

invite the attention of the Trade to the following well-tried preparations, which carry a big P.A.T.A. retail protected profit, and are well known and valued by the public in many parts of the country.

**Losall's Asthma Remedy.**

Very effective Remedy for Asthma, Bronchitis, &c.

PROTECTED RETAIL PRICE	DOZ. NET.
1/-	7/6

**Losall's Salt.**

The popular Remedy for Eczema, Gout, Rheumatism, and Biliousness. Well advertised.

6d.	3/6
1/-	7/-
1/6	10/6

**Losall's Compound Sulphur Soap.**

A valuable emollient medicated Skin Soap, especially for use in Eczema cases.

1/-	8/-
-----	-----

**Losall's Ball Room Floor Polish.**

Produces a smooth surface beneath the Dancers' feet. No dust.

1/-	7/-
-----	-----

**Malted Food.**

Usual 1/- size, lever lid tins, name and address free on 3 dozen. Special design label, with name and address on gross orders, if desired.

—	4/6
---	-----

London Agents: **F. NEWBERRY & SONS, Ltd.**

**VEROX**  
ALL BEEF. ALL BRITISH

Fluid Beef is the line that sells. More cups to the bottle: better quality and low minimum selling prices are a few points that, backed by good advertising create the demand.

**30% Profit**

at least, is guaranteed you. Send to-day for free sample, price list and special advertising terms to—

**TOOTH'S Liebig** (Est. 1865),

12 Duke Street, London Bridge, S.E.

A.J.B.

NO. 2.

YOU SHOULD STOCK  
**Sister Luras Food**

The Best Food for Infants,  
Invalids, and the Aged.

This Food has a Hospital Record of fully  
14 years—a record of unrivalled success.

Makes Milk Digestible. Made in a moment, and has a quick and ready sale. Once tried, always used. Literature, Showcards, &c., direct. Liberal Window Display terms. Sample Tin on receipt of memo. Your Wholesale Agent can supply you. Retail Price, 1/- per tin. Wholesale Price, 9/6 per dozen (on P.A.T.A. List).

**SISTER LURAS INFANT FOOD CO., Ltd.**  
156 St. Vincent Street, GLASGOW.





# THE NATURAL MINERAL WATER OF **VICHY-CÉLESTINS**

(STATE SPRING.)

For DISEASES of the KIDNEYS, GRAVEL, GOUT, RHEUMATISM,  
DIABETES, &c.

## VICHY-ETAT PASTILLES

Two or three Pastilles after each meal facilitate digestion.

**CAUTION.**—Each bottle from the STATE SPRINGS bears a neck label with the word "VICHY-ETAT" and the name of the SOLE AGENTS:—

**INGRAM & ROYLE, LTD.,**

Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

And at LIVERPOOL and BRISTOL.

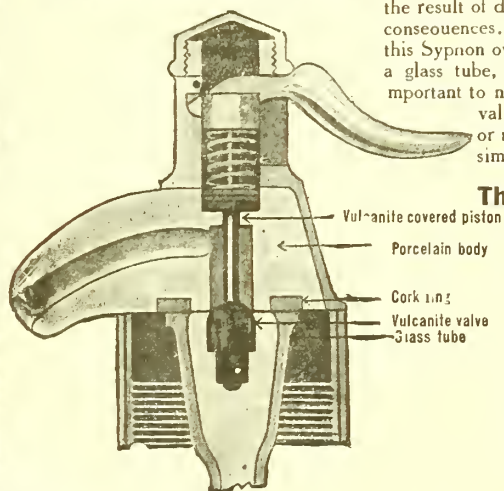
## A PERFECT SYPHON

CHEMISTS who sell Soda Water should take care to be on the safe side. This can best be secured by using SHARMAN'S PATENT HYGIENIC SYPHON. This Syphon has a solid Porcelain head, and is the only safe Syphon on the market, as the contents do not come in contact with either metal or rubber. Every Chemist will know that both these substances, when used for Syphons contaminate the Aerated Water. Syphon Heads made from Tin, Lead, Antimony, or Aluminium Alloy, are dissolved by the  $\text{CO}_2$  used in the process of Aeration; therefore the waters sold in Syphons with metal heads cannot be relied upon, and the result of drinking these waters has been proved to be attended with most serious consequences. A glance at the section of SHARMAN'S SYPHON will show how this Syphon overcomes these objections. The water passes from the Syphon through a glass tube, over a vulcanite valve, and through a solid porcelain Head. It is important to note that the piston working the vulcanite covered valve is itself covered with vulcanite, making metallic or rubber contamination impossible. It is perfectly simple but absolutely effective.

The Special Points to emphasize are:

BETTER WATER.  
EASY ACTION.  
SHORT LEVER PRINCIPLE.  
EASILY DETACHABLE PARTS.  
FREEDOM FROM LEAKAGE.  
MODERATE COST.  
ABSOLUTE PURITY.

If you manufacture your own Aerated Waters you should use SHARMAN'S PATENT HYGIENIC SYPHON. If you buy Syphons ready filled, insist upon your suppliers using it.

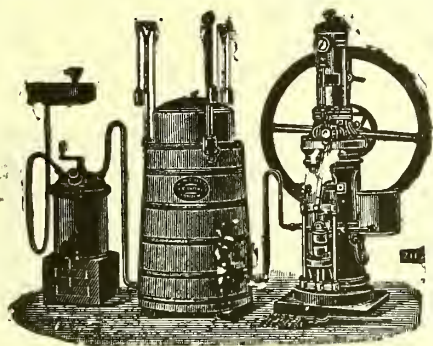


If you contemplate Filling your own Syphons apply here for best Machinery:

**SHARMAN'S PATENT SYPHON CO., Ltd., 171 LOWER CLAPTON RD., N.E.**



11 GOLD MEDALS. **THE BEST HOUSE IN THE WORLD** FOR ALL REQUIREMENTS OF THE **MINERAL WATER TRADE** 49 HIGHEST AWARDS.

**"THE NIAGARA."**

This type is fast superseding all other makes, and is used in the leading manufacturing of the world.

**PRICES FROM  
£18 10s.**

See Catalogue for other types.  
Are all Fitted for Hand and Power.

NOTE.—We include all necessary Connecting Pipes free *without extra charge*, so that the machinery is ready for work upon arrival.

For larger sizes see Catalogue.

By our new process of Back Pressure Filling we can guarantee the

**HIGHEST QUALITY  
SODA WATER at  
60 lb. Pressure**  
Thus saving **HALF YOUR GAS.**

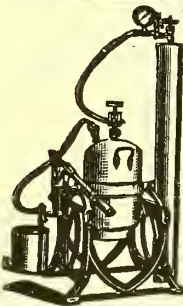
**"THE COMPACT."**

For Use with Compressed Carbonic Acid Gas.  
In use by the leading Chemists, Hotels, Hospitals, and Public Institutions throughout the United Kingdom.

*The Most Successful Machine of the Times.  
The Perfection of Simplicity.  
Automatic Carbonation.*

**PRICES.**

- |   |         |
|---|---------|
| No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles and Syphons | £60 0 0 |
| No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles and Syphons   | £48 0 0 |
| No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles or Syphons    | £33 0 0 |

**"THE CYLINDER"  
SODA WATER PLANT.**

This is a Cheap Apparatus, designed for use with Compressed Carbonic Acid Gas, for serving Soda Water on the counter by means of a silver-plated counter stand.

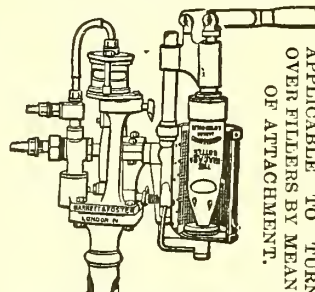
**PRICES FROM £15.**

Specially suitable for Hotels, Chemists  
Confectioners, Pastrycooks, &c.

**"THE IDEAL."**

**FILLING MACHINE.**

for "Codd's Niagara" and all kinds of Internal Stoppered Bottles.



BACK PRESSURE SYSTEM  
APPLICABLE TO TURN-  
OVER FILTERS BY MEANS  
OF ATTACHMENT.

With Syrup Pump ... £9 9 0  
Without Syrup Pump £7 7 0

**"THE GALWAY."**

**FILLING MACHINE FOR  
SYPHONS.**

THE SIMPLEST OF ANY  
SYPHON FILLER YET  
INTRODUCED.

With Syrup Pump,  
£10 10 0  
Without Syrup Pump,  
£5 5 0

Low Pressure Attachment  
whereby half the Carbonic  
Acid Gas is saved, with  
better product resulting.  
For use with any Filling  
Machine.

**BALL-STOPPERED BOTTLES,  
SYPHONS,****Cork & Crown-Cork Bottles**

AT LOWEST RATES.  
Prices upon Application.

**BARNETT & FOSTER**

**"Niagara Works,"**

**26<sup>th</sup> Eagle Wharf Rd.,**

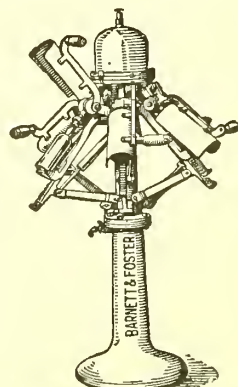
**LONDON, N.**

ILLUSTRATED CATALOGUE FREE.

**"THE ROUNDABOUT"  
BACK PRESSURE  
FILLER.**

For the Bottling of Aerated Beverages and Beers in specially economical and expeditious manner. Superior quality at lower pressure, saving gas and breakage in bottles with greater output from machine. Made in six sizes—three for Hand, three for Power. For all classes of Bottles. Provides THE Modern method of filling.

Send for Booklet, "All about the Roundabout."





# CARDS.

For Terms apply to the Publisher.

## FRED<sup>K</sup>. FINK & CO.

10 & 11 MINCING LANE, LONDON, E.C.

**SPECIALITIES:** Cums Arabic and Tragacanth as imported or finely powdered—Dextrine, Camomiles, Money. Waxes of all kinds for Boot Polishes, &c.

## CORN EXTERMINATOR



NEVER  
FAILS.

Ingenious Instrument. Anyone can use. Highest surgical testimonials. Post free, 1s. 1d. **CORN, EUNION, CHILBLAIN, AND RHEUMATIC OINTMENT** absolutely cures Tender Feet, Soft or Hard Corns, Enlarged Joints, Piles, &c. Post free, 1s. 2d.

Mr. CARDNER, Chiroprapist, Spécialité—Nalle, 85 Regent Street, W.

## PRECIPITATED CHALK.

LIGHTEST, WHITEST AND PUREST QUALITIES

APPLY TO—

**AUG. LEVERMORE & Co., Ltd.** 9/10 St. Mark Lane, LONDON, E.C.

TELEGRAMS: "LEVERMORE LONDON." TELEPHONE: 4513 CENTRAL.

## DISINFECTANTS

OF ALL KINDS.

Cheapest Makers of Co-efficient Acids and Fluids.

**HENRY ELLISON, LTD., CLECKHEATON, YORKS.**

## ENEMAS, SPRAYS, DOUCHES, & SURGICAL RUBBER GOODS.

Write for List

**X. L. RUBBER CO.** Broadheath Rubber Works, ALTRINGHAM.

## "SILVERY WHITE GUTTA PERCHA ENAMEL"

### TOOTH STOPPING



**P. A. STEVENS, Surgeon-Dentist,**  
Mansfield Rd., S. Hampstead, N.W.  
Sole Proprietor & Manufacturer.

TRADE MARK. Registered No. 2745. Special Terms to Wholesale Houses for Sheet or Sticks stamped with their own name. A sample box of 8d. sticks sent post free for 12 stamps. Price list and sample free.

## GEORGE HAYNES & CO.,

Hampstead Cotton Mills, Stockport.

MANUFACTURERS OF

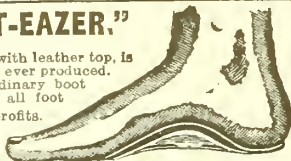
**BLEACHED AND ABSORBENT COTTON WOOLS, SURGEON'S AND HOSPITAL LINT, BANDAGES, &c., &c.**

FIVE GOLD MEDALS, FIVE SILVER MEDALS, AND DIPLOMA OF HONOUR.  
The Highest Awards Given to any Cotton Wool or Lint Manufacturers.

Telegraphic Address: "HAYNES STOCKPORT."

## SCHOLL'S "FOOT-EAZER."

Made of two German Silver Springs, with leather top, is the most practical foot-resting device ever produced. Light and springy, worn in the ordinary boot unnoticed, it gives instant relief to all foot troubles. Gives the Chemist big profits. Our free Booklet "Scientific Correction for Ailments of the Feet" sent on application.



THE SCHOLL MFG. CO., Ltd., 123 & 4, Giltspur Street, London, E.C.

## TABLET & PILL COUNTING & FILLING MACHINES

for Bottles and Boxes, £8 15s. to £20.

Write for our new Illustrated Catalogue, of 24 pages, of **PILL MACHINERY, TABLET MACHINERY, COATERS, TINCTURE PRESSES, CORKING MACHINES, EMULSIFYING MACHINES, PERCOLATORS.**

Other Machinery for Manufacturing Druggists and Chemists.

**J. W. PINDAR & CO.,** Druggists' Engineers, BROCKLEY, LONDON, S.E.

Please note our Telephone Number: NEW CROSS 1065.

## OSCAR WATTENBACH,

5 LEONARD STREET, FINSBURY, LONDON, E.C.

Telegraphic Address: "WATTENBACH LONDON."

WHOLESALE AND EXPORT ONLY.

**DRUGGISTS' SUNDRIES.** Surgical Rubber Goods. Enemas, Injection Bottles, Douches and Syringes of every description. Rubber Sponges, Feeding Bottles, Baby Comforters. Surgical Glass, and Enamelled Iron Ware. Trusses, Bandages, Glass Bottles used by Druggists, Perfumers, &c. Specialities, and Sundries of every Description.

## DENTISTRY FOR DENTISTS

by A. J. FENTIMAN, Dentist (Fentiman & Co.).

Practical Dentists in Gold, D.A., Tubes, Crowns, Gum Sections, Vulcanite, Celluloid, Strengthened Rubber, Reg. Cases (Angles), Obturators, &c.

Telephone: 9977 London Wall. Telegrams: "Lulling London." Postal—East Smithfield, Tower Bridge. Established 1836.

NO OTHER ADDRESS.

## First-Class Mechanical Dentistry.

Reliable workmanship. Popular prices. Moderate charges for gold, D.A., Tubes, Seamless Gold Crowns, Sections, Vulcanite, &c. Ash's and D.M.Co. Teeth and Rubber guaranteed. Punctuality strictly observed. List free. Trial case solicited. Gold and D.A. work a speciality. Special cheap rates for showcase pieces. 16 years' experience of first-class mechanical dentistry.

**E. C. HALDER, 46 New Cross Road, LONDON, S.E.**



**DENTISTRY**

(Mechanical).

EXPERT WORKMANSHIP.  
POPULAR PRICES.PROMPT SERVICE.  
GUARANTEED MATERIALS.

● "Dentistry for Chemists" post free. "Everyday Dentistry," 3/6.  
**F. C. WARDALE & CO., 132 High Street North, East Ham.**  
 Tel. No.: East Ham 174. Tel. Address: "Eladraw London."

**Papier Poudre****POPPOEIA PREPARATIONS**

Good Profit to Chemists, &amp;c.

Price List from

**PAPIER POUDRE, Ltd.,**

23 Somerset St., London, W.

**ON P.A.T.A. LIST.****CHAMELEON OIL.****NO NEED TO RUB.**

CURES Rheumatism, Lumbago, &amp;c.

**THE CHAMELEON OIL CO., Ltd., 45 Eden Grove, HOLLOWAY, N.****NEWNHAM BROWNE & CO.**

(John E. Rawerth, Chartered Patent Agent, Sole Partner).

**PATENTS, TRADE MARKS AND DESIGNS.**City Office:  
79 CHEAPSIDE, E.C.Head Office:  
QUEEN ANNE'S CHAMBERS,  
WESTMINSTER, S.W.**MUSTARD PLASTERS**

(MUSTARD LEAVES)

With any wording and in any packing desired.

**INHALERS.****JULIUS RUEFF,****PFUNGSTADT (HESSE), GERMANY.****RUBBER STAMPS****CHEMISTS' STAMPS,  
SEALS AND STENCILS  
A SPECIALITY****G. D. RICHFORD,**  
8 & 9 Snow Hill,  
LONDON, E.C.

Full Illustrated Lists Free. Special Terms to Chemists.

**TOBACCOS! CIGARS! CIGARETTES!**

Every known Brand at Manufacturer's own List  
 Prices. Endless variety of Tobacconists' Fancy  
 Goods & Shop Fittings. The Trade only supplied.  
 Opening orders a Speciality. Send for Price List.

**SINGLETON & COLE, Ltd., Cannon Street, BIRMINGHAM,  
AND BRANCHES.**TRADE MARK.  
Established  
1876.

SPECIALITY:

**880 Liquor Ammonia**

Still to the front for excellence of Quality.

**Brown's Sanitary Fluid or Powder.**Special attention to Home or Colonial orders.  
Inquiries solicited.**Brown & Blackburn, Chemical Works,  
Thongsbridge, Huddersfield.****VAN HORN & SAWTELL**

— LONDON &amp; NEW YORK — MAKERS OF

**K-Y LUBRICATING JELLY**

IN COLLAPSABLE TUBES, AND OF

**"Van Horn" STERILE SUTURES & LIGATURES**  
IN GLASS TUBES — PRICES ON APPLICATION.

31-33 HIGH HOLBORN, W.C.

**EPSOM SALTS**DRUGGISTS' QUALITY  
IN ALL PACKAGES.**WILLIAM BLYTHE & Co. Ltd., Church, Lancs.**

SPECIALISTS IN THE MANUFACTURE OF

**Waterproof Smallware, &c., Sponge  
Bags, Bathing Caps,**

Washing Cloves, "FATHER NEPTUNE'S SAFE FLOATS."

**F. SCHUTZE & CO., LTD., London, N.** [2]**Dentistry**

FOR CHEMISTS &amp; DENTISTS

Write for  
Price List**A.G. FENTIMAN**

190 BISHOPSGATE, LONDON, E.C.

**'RED CROSS' PILLS,**

MIXTURE, LOTION, EMBROCATION, OINTMENT, ETC.

Title and Trade Mark registered by a Pharmacist,  
1876, have always carried a 'LIVING PROFIT.'

PROFIT BRINGERS — — — ON P.A.T.A.

From all Wholesalers or direct from—

**FOX & CO. (L'pool), LTD., 151 Dale St., LIVERPOOL, England.****ARE YOU GETTING THE BEST RESULTS?**

If NOT, try

**H. GARTHWAITE,**The Old Established Dental Mechanic,  
Crown Chambers, Goldsmith Street, NOTTINGHAM.

Write at once for Price List.

**The "CULVERT"****CRÈPE PAPER TOILET ROLLS**

Invaluable for HOSPITALS and SICK ROOM.

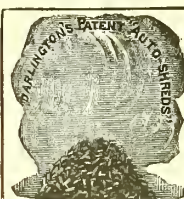
WHOLESALE AND EXPORT.

**R. MANSON,** Culvert Works, SOUTH TOTTENHAM, LONDON, N.






**ALEXANDRE'S  
SHADEINE**  
FOR COLOURING GREY HAIR.  
This popular article is largely advertised  
and stocked by all Wholesale Houses.  
**TRIAL BOTTLES** 6d. size, supplied on  
pretty showcards.  
4/- per doz.; 8/6 else, 2/- per doz.  
**58 WESTBOURNE GROVE, LONDON, W.**



**AUTO-SHREDS** is certain  
**DEATH**  
to leaf-mining Maggots and all Pests infecting  
plants under glass, &c. Simple to use, no apparatus  
required. In Boxes to fumigate 1,000 cubic feet,  
6d.; 10,000 cubic feet, 3s. 6d. each. Trade  
Prices, 3s. 6d. per doz. and 30s. per doz.

**WM. DARLINGTON & SONS,**  
Wholesale Horticultural Sundriesmen,  
HACKNEY, LONDON, N.E.  
C14



**RUBBER  
CORKS** in all sizes.  
**HOT WATER BOTTLES**  
in White & Red Rubber.  
RUBBER AND WATERPROOF GOODS.  
Balloons, Squeakers, Pigs, Bears, etc.  
**ALTRINCHAM RUBBER COMPANY,**  
Only Address—Mosburn Buildings, Altrincham.

**TO LET.**

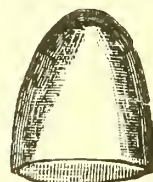
**S.V.M. WINES FOR  
CHEMISTS.  
S.V.R.**  
**A. MACNAIR & CO.** Dolphin Distillery,  
Ardwick, MANCHESTER

**"Zepto"** THE ANTISEPTIC  
TARTAR REMOVER.  
Shall we send Sales Scheme?  
**CHRISTY'S, Old Swan Lane, E.C.**


**DENTAL TOOLS & MATERIALS.**  
*Teeth, Rubbers, Anæsthetics, Chairs, Engines, etc.*  
Low Prices. First Quality. **NEW CATALOGUE POST FREE.** Write for Quarterly Journal.  
**C. J. PLUCKNETT & CO., Ld., 29-30 Poland St., Oxford St., London, W.**

# RENDELL'S

## SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered  
Trade Mark,   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*  
No. 182,688.

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

### IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

**W. J. RENDELL,**  
INVENTOR AND SOLE MAKER,  
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.



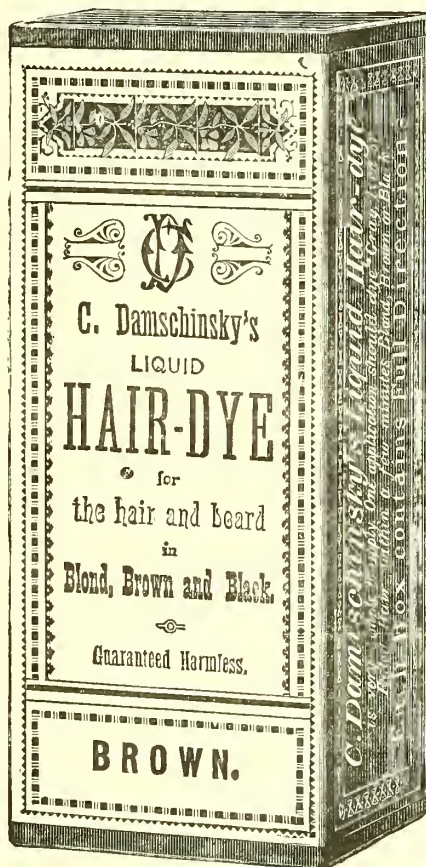
# "DAMSCHINSKY'S" American Liquid Hair Dye

ONE PREPARATION.

FOR THE HAIR & BEARD (in Three Shades),  
BLONDE, BROWN, & BLACK.

It contains no injurious substance. Dyes the Hair, whether grey or red, to any colour—from the finest blonde to the deepest black. It is efficacious and reliable. The oftener the colour is used, the darker becomes the shade of hair—so that the original colour of hair may be retained. It is a Dye, not a bleach. Will not give dark hair a light shade.

For orders of not less than 6 dozen, we give 1,000 Counter Bills with customer's own name and address as agent.



For quantities of not less than 2 gross, we print customer's own name and address on labels as agent.

## PRICES:

1/3 Size:

9/- per Doz.

2/- Size:

12/6 per Doz.

## CERTIFICATE.

*This is to certify that I have examined C. DAMSCHINSKY'S LIQUID HAIR DYE, and find it to be free from all substances which might have an injurious effect, provided that the directions be adhered to. Especially is this preparation free from salts of lead and silver.*

*Dr. M. Hasenclever,*

*Wall Street, New York.*

*Analytical Chemist.*

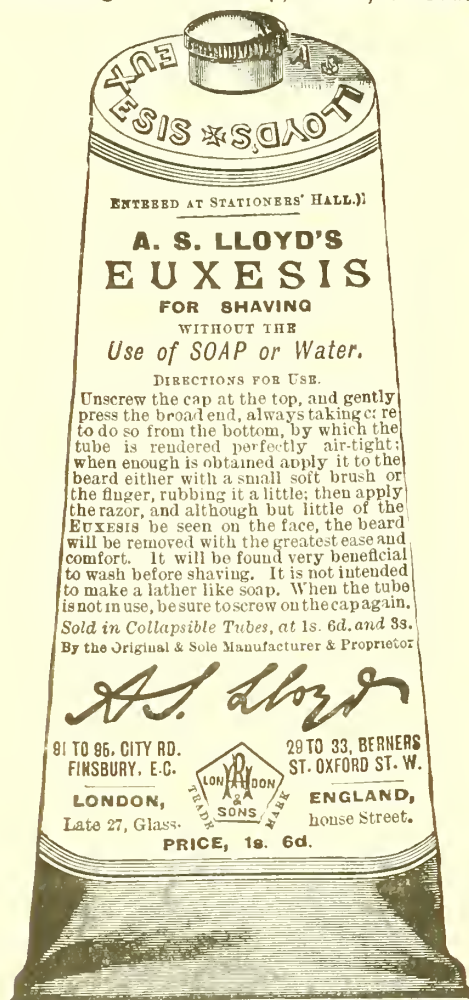
SOLE AGENTS FOR  
GREAT BRITAIN:

**OSBORNE, GARRETT & CO., LONDON, W.**



**A. S. LLOYD'S EUXESIS****(THE GENUINE.)**

For Shaving Without Soap, Water, or Brush.

**Sold by all Perfumers and Chemists throughout the World.**

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- per dozen, 9/6 by the 3 dozen, 9/- by the 6 dozen.  
 Retail at 1/6 the Tube; 3 - size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS,**  
 LIMITED.

29-33 Berners Street, W.  
 and 89-95 City Road, E.C., LONDON.

**Seasonable Goods**

**Military Hair Brushes.** Satin back.  
 High Cut Bristles, 1½ in. In Leather Case. Per pair **10/6**

**Ebony Military**, very stiff Flat Brushes in compact Case, only 5 × 2½ × 2½ in. Per pair **4/6**

**Ebony Hair Brushes.** Per dozen **35/6, 38/6, 48/-, 51/-**

**High-class Celluloid Covered Hair Brushes.** Stiff White Bristles. Per dozen **60/-**

**Shaving Set** in Real Leather Case. Each **6/6**

**Toilet Case.** Solid Leather, containing 2 Stoppered Bottles with Plated Caps. Each **5/-**

Terms: 5% One Month.

**Francis Newbery & Sons, Ltd.**  
 27 & 28 Charterhouse Square, LONDON, E.C.

You can supply your Customers with high-class Toilet Preparations at extremely low prices, and get a good profit yourself.

**LARGE BUYERS and SOLE AGENTS**  
 for our Specialities wanted everywhere.

Face Powder, best quality and special appearance; Tooth Paste in GLASS, ALUMINIUM-COVERED JARS; SHAVING STICKS IN FANCY DECORATED TINS; Tooth Powder, superior and cheaper to any other POMADE HONGROISE, five sorts and in all prices; COSMETIQUES for fixing the Hair, six qualities and sizes; "ELSO" FACE MASSAGE CREAM, extra fine quality; BRILLIANTINE IN DIFFERENT SIZES, qualities, and prices, ALSO WITH BUYERS' NAMES. Toilet Paraffin, Bay Rum, Lanoline, Lime Cream, "Flowerine" Hair Cream, Violet Powder, in highly decorated tins, Sachets, RAZOR PASTE, Scurf Pomade, "BRYSTA" CLOTH CLEANER, at lowest prices.

IT WILL PAY YOU to write for Samples and Quotations to:—  
 The  
**WHOLESALE CHEMICAL WORKS,**  
 114 Copenhagen Street, King's Cross, LONDON (Eng.)



# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

## CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

**Sole Manufacturers and Proprietors:**

**AIMÉE LLOYD & CO.**

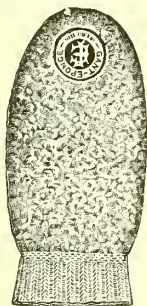
**23 PANTON STREET** (formerly named Spur St.), **LEICESTER SQUARE, LONDON, S.W.**

*N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).*

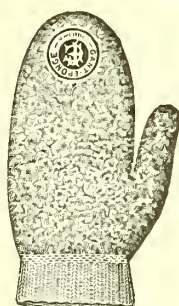
Do you want THE BATH GLOVE

whose finished excellence makes everyone who handles it a Buyer?

It is the "E.F." (Patented)



E.F. 505.



E.F. 506.

The illustration cannot convey to you the dainty perfection of manufacture. Made in one piece, without seam of any kind, they are soft as a high-class Turkish Towel, but immeasurably stronger and are a real glove in the way they fit the hand.

There are two sizes in each shape, at same prices:—

E.F. 505, without thumbs, Retail 10½d. per pair, 7/- per doz. pairs.

E.F. 506, with thumbs, Retail 1/- per pair, 8/- per doz. pairs.

Of all Wholesale Houses.

Sole Consignees for Great Britain and Colonies:—

**Solport Bros.** 188 & 190 Goswell Rd., London, E.C.

Do you like my Hat?

Made new for 6d with  
**LUTON**  
STRAW HAT DYE

WHITAKER & CO. Colour Works, KENDAL, ENGLAND

In bottles, 6d. each, in separate neat cartons, with suitable brush. These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods. On the P.A.T.A.

Write for terms, patterns, also leaflet of testimonials:

**WHITAKER & CO. COLOUR WORKS, KENDAL, ENG.**

London Depot: 8 MILK STREET, CHEAPSIDE, E.C.

SPECIALISTS IN VARNISHES, STAINS, DYES, &c. EST. 1878.

Telegraphic Address: "Dullette Kendal."

Telephone: No. 214.

NO GLOSS

NO POLISH



The number of dentifrices is myriad, their names are legion,

*But—*

in principle and in efficiency there is but one,

# CALOX

## THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, London, Eng.

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX, acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, London.

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

McKESSON & ROBBINS, New York, U.S.A., Manufacturers.

BRITISH DEPOT—G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

(EST. 1839.)

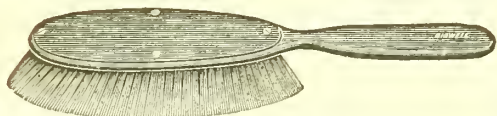
**BIDWELLS,**  
AXMINSTER,  
DEVON :: ENGLAND.



NO LOOSE HAIRS IN OUR  
" TOOTH BRUSHES. "



THE "GRIP" NAIL BRUSH.



FINE QUALITY HAIR BRUSHES.

BIDWELL, BIDWELL & CO., LTD.

Gold Medal Awarded

IMITATIONS of our  
Silver-drawn Tooth  
Brushes are being sold.

## SUPPORT HOME INDUSTRIES.

Estd. 1777.



Incd. 1900.

**BUY**  
**KENT'S**  
**BRUSHES.**

Winter Issue, 1912, pp. 48, 49.  
Diary, 1913, pp. 88, 89.

**KYHO**

Registered.

Registered.

(Protected by the P.A.T.A.)

## The Wonderful New HAIR RESTORER

Cooling and refreshing to the scalp, promoting new growth and restoring the natural vigour of the Hair.

Contains no grease or colouring matter, yet has been found to revive the natural pigment.

Sold in bottles, 2/6; minimum retail price, 2/3.

To the Trade, 21/- per doz. from all the leading Wholesale Houses, or from the

KYHO PROPRIETARY, 45 Penwortham Rd., STREATHAM, S.W.

A Special BRILLIANTINE and a SHAMPOO FLUID are also supplied to be used with KYHO.

For further particulars see our full page advt.

in The Chemist & Druggist, March 30, 1912.



# "The Goods that know No Season."

## "HARLENE."

		Retail.	Wholesale.
No. 1 size	.	1/-	11/- doz.
" 2 "	.	2/6	27/3 "
" 3 "	.	4/6	47/- "

## "UZON" BRILLIANTINE.

		Retail.	Wholesale.
No. 1 size	.	1/-	11/- doz.
" 2 "	.	2/6	27/3 "

## "CREMEX" SHAMPOO POWDERS.

Retail, 1/- per box (7 Powders).

Wholesale, 11/- doz. boxes.

Also may be retailed in Single Packets at 2d.

Discount 20 per cent. Minimum Orders £5 net.  
Carriage Paid.

## "ASTOL," For Restoring Grey or White Hair.

Minimum Prices :—Retail, 2/7 and 4/2; Wholesale,  
26/6 and 42/- per doz. net.

"Astol" Complete Parcels :—Retail, 8/-;  
Wholesale, 6/4 net.

We shall be pleased to supply Showcards, Dummies, Counter  
Bills, &c., on receipt of P.C. to the Manufacturers—

**EDWARDS' HARLENE Co.**  
**104 HIGH HOLBORN, LONDON, W.C.**



# EUCRYL TOOTH POWDER

## YIELDS 100% PROFIT.

The Proprietors wish to call the attention of their numerous friends to the fact that the Cent. per Cent. Bonus Terms apply to the 1/- (Flat or Canister shape) as well as the 6d. tins.

3 doz. 1/- tins at 7/- per doz.	...	Cost	£1 1 0
3½ doz. (including free bonus)	...	Sell for	2 2 0
		Profit	£1 1 0

PROPRIETORS:

**EUCRYL LTD., 61/63 LANT ST., SOUTHWARK, S.E.**

## OLIVAL (TRADE MARK) SOAP.

Manufactured in Malaga, Spain, by the  
**ANGLO-SPANISH OLIVAL SOAP CO.,**  
solely from Pure Products of the Olive.

THE ANALYTICAL REPORT IN THE LANCET, APRIL 13th, 1912, SAYS:—

"The statement that this soap is produced from olive oil is supported by our analysis. .... We separated from the soap the fatty acids and they were found to give physical constants identical with those obtained when the fatty acids of olive oil are examined. We also directed our attention to the iodine-absorption value of the liberated fatty acids and the figure obtained was 88, which is the figure recorded by authorities as yielded by the fatty acids of genuine olive oil. .... It may fairly claim to be a pure unirritating soap."

Recommended specially for Surgical Cases, for all Irritable Cutaneous Affections, for Children and persons with Tender Skins.

To be obtained of all Wholesale Houses, who are supplied through the Sole Agent for the United Kingdom and the Colonies:

**Wm. JONES, 25 East Street Buildings, Manchester Square, London, W.**



### THE NEW ASTRINGENT

for wrinkles and flabby skins. Each tube in a well-printed carton show-card with every dozen.

Retail, 10½d.

Wholesale, 5/- per doz.

6 doz. @ 4/6, 12 doz. @ 4/- per doz.

**VAN ESSEN, JAMES & Co., Ltd.,**  
Toilet Specialists,  
100 BERMONDSEY ST., LONDON, S.E.

We are the largest manufacturers of

## POWDER=PAPER

SHEETS,  
BOOKS,  
BLOCKS,



Best quality,  
lowest prices

Ask for free samples.

## KOPP & JOSEPH,

Perfumer, 122, Potsdamer Strasse,  
BERLIN, GERMANY.



# Quality & Price in Tubes

*Quality is of primary importance in Collapsible Tubes, Sprinkler Corks, Shaving Stick Tubes, and all Druggists' Metal Goods; and given quality, the next consideration is a reasonable price.*



Our experience of more than 100 years and our reputation are sufficient to assure you of obtaining goods upon the quality of which you may rely absolutely; the largest factory in the world, a staff of 800 hands, and the scale on which we buy our raw material, enable us to give you an advantage in price as well.

Have you seen our Patent Adhesive Capsule, which cannot be removed without destroying it?

Absolute guarantee of purity of the contents.

**BETTS & CO., Ltd., 1 Wharf Rd., City Rd., LONDON, E.C.**

## DRUGGISTS' TURNED WHITE WOOD BOXES

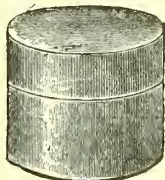
(ENGLISH MANUFACTURE)

OF EVERY DESCRIPTION.



These Boxes are made from Selected White Willow Wood & finely finished.

They are very cheap, from 1/- per gross upwards, WOODEN BOTTLES & VIALS also from 1/- per gross upwards.



Pill Boxes.

Inventors & Patentees of

**Silicated Grease-proof Boxes.**

A boon to Ointment Manufacturers.

A perfect substitute for a Covered Pot.



Wooden Vials.

Unbreakable and very light and saves half the duty in Countries where it is charged on the gross weight.

See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

Price List and Samples on application.

**ROGERS & CO., Carter St., Walworth, LONDON, S.E.**



# STIPENDUM CORK STOPPERS

in  
all sizes  
suitable for  
**KALIS, CITRATES,  
DISPENSING, and all  
FLUIDS.**

## STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS,  
PASTES, AND OINTMENTS.

### GREASE PROOF.

For Samples and particulars apply to  
The  
**Stipendum Stopper Co.**  
1 Newman Street,  
LONDON, W.  
(Tel. No. 5765)  
GERRARD.



HAVE YOU TRIED OUR . .

# "New Process" OTTO OF ROSE

Distilled under vacuo, eliminating inodorous

:: Stearoptine to a large extent ::

WRITE FOR QUOTATIONS.

**THE LONDON ESSENCE CO.,**

George St., Camberwell Green, LONDON, S.E.

## HENRY C. QUELCH & CO.,

4 LUDGATE SQUARE, LONDON, E.C.

*are Agents for*

### BOURJOIS'

Java Powder, 1 doz., 7/- ; 6 doz., 6/9 ; 12 doz., 6/6.

Eye-Brow Pencils,

No. 35, 1/9 doz. ; No. 153, 2/6 doz.

Rouges, No. 117, 2/3 doz. ; No. 118, 3/3 doz. ;

No. 104, 4/6 doz.

Brilliantine, No. 617, 7/6 doz., etc., etc.

### SYRACUSE & J.P. BANDAGES.

No. 10, Cotton, 8/- doz.

" 16 " 16/- "

" 21 " 20/- "

" 26, Silk, 30/- "

" 31 " 36/- "

" 32 " 40/- "

" 34 " 53/- "

No. 45, J.P., 8/4 doz.

Cotton.

No. 53, J.P., 12/6 doz.

Silk.

### TETLOW'S PREPARATIONS.

Swandown Face Powder ... 4/2 doz.

Bonus of 2 doz. with each gross.

Gossamer Powder ... 7/6 doz.

Cold Cream ... 8/9 "

Blue Moon Perfume ... 13/6 "

### DUN'S CAPSULES.

	doz.		doz.
Blaud's	... 5/-	Male Fern	... 6/6
Cascara	... 6/6	Quinine, 3 grs.	6/6
Castor Oil	... 5/6	" 5 "	6/6
Cod Liver Oil	6/6	Santal, 5 min.	16/-
Copaiba	... 8/-	" 10 "	26/-

Etc., etc.

### PAPIER POUDRE.

3d. size, 2/- doz.

6d. " 3/9 "

4 1/2 d. size, 2/6 doz.

1/- " 7/6 "

### POPPEA ROUGE.

3d. size, 2/- doz.

1/- size, 8/- doz.

6d. size, 4/- doz.

ETC., ETC., ETC.

**SEND YOUR ORDERS TO ABOVE ADDRESS.**

"NEAR KID," FOR CAPPING, 3/9 doz.

PETAL DUST,

3d. size, 1/10 doz. ; 6d. size, 3/6 doz.

### TOP NOT PREPARATIONS.

1d. Soap, 8/- gross ; 6d. size, 4/6 doz.

3d. Ointment, 2/9 doz.

6d. Dressing, 4/6 doz.



**VARALDI****CANNES-LA BOCCA  
NATURAL FLOWER PRODUCT****EUCALYPTUS GLOBULUS** of Cannes  
**GERANIUM** of Cannes, distilled over Roses" of Cannes  
" of France  
" Algerian  
" BourbonQUALITY & PRICE  
BEAT  
ALL COMPETITORS.**LAVENDER** Cultivated  
" Mont-Viso' extra  
" Picked flowers  
" fine  
**NEROLI** Bigarade Petale Extra  
" " Superior**OTTO of ROSE, THÉ** (Speciality)**PERFUME WITHOUT ALCOHOL, PERFUMERY EXTRACTS,  
OLIVE OIL, CASTOR OIL, PEACH KERNELS OIL.**SOLE AGENT FOR THE UNITED KINGDOM: **W. BONSER HAYWARD, 17 Lawrence Lane, E.C.**THE "D & O" BRAND  
MEANS  
"STANDARD OF QUALITY"**ESSENTIAL OILS, SOUTH AMERICAN BALSAMS & DRUGS.***Write for Samples and Prices of our* **PEPPERMINT OILS.****DODGE & OLCOTT CO.,** 20 MARK LANE,  
LONDON, E.C.**EAU DE COLOGNE****"ELSA PLATZ" BRAND**

Unrivalled for Delicacy and Strength.

Eminently suitable for a Speciality.

Sells readily at very handsome profits.

Sample and Prices on application.

**SPURWAY & CIE., Ltd.**

MANUFACTURING PERFUMERS,

14 BARTHOLOMEW CLOSE, LONDON,  
E.C.



# A. W. SCHWARZ

## Chemical Manufactory, ALTSTETTEN-ZURICH, SWITZERLAND.

## SYNTHETIC PERFUMES

Abricotine, Amber  
Ambrette, Ambrettine  
Apple Blossom  
Bergamott (Artificial)  
Biancol, Biosine  
Bouvardine, Capucine  
Carnation, Cassie  
Castoreum  
Chirassol, Citral  
Clover (Trèfle)  
Coumarine, Cyclamine  
Fern liquid  
Fixateur, Fleuréal  
Gardenia, Genetol  
Geraniol, Glycine

Géranium-Roseine  
Heliotrope (white)  
Heliotropine, Honey  
Honeysuckle  
Hyacinth, Indol  
Irine A., Irine B  
Irine C., Irine D.  
Iris of Florence  
Iris liquid, Lavender  
Linalool  
Lilac Flower  
Lily of the Valley  
Lime Flower (Tilleul)  
Mignonette (Réséda)

## Specialities :

Mimosa, Musc C.  
Musc Xylène  
Musc liquid  
Monoviola  
Narcissus, Neroli  
New-Mown Hay  
Pelopomine  
Peony  
Radialine, Raldinè  
Rose de Dijon  
Rose d'Orient  
Roseine  
Royal Oak  
Safranor

## ESSENTIAL OILS

Special Violet  
Sweet Pea  
Thyme, Trefline  
True Violet  
Tuberose  
Vanilline  
Violet Flower  
Violet Verdure  
Violet d'Azour  
Wallflower  
White Violet  
Ygeana  
Ylangol (artificial)  
Yranol

Price List and Samples on demand.

TO WHOLESALE AND EXPORT TRADES.

# W. RANSOM & SON

(ESTABLISHED HALF A CENTURY.)

## MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants.

HITCHIN, near LONDON.

SOLID & LIQUID EXTRACTS  
EXPRESSED JUICES  
ESSENTIAL OIL of LAVENDER  
ESSENTIAL OIL of PEPPERMINT

SPECIALITIES:  
SCAMMONY RESIN  
JALAP RESIN  
ELATERIUM  
MERCURIAL PILL & OINTMENT

ALOID | EUONYMIN  
LEPTANDRIN | IRIDIN  
DRIED MEDICINAL LEAVES  
ENGLISH DANDELION ROOT

Medicinal Tinctures and Spirits prepared with Pure Spirit supplied in Bond for Export.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

# JEWSBURY & BROWN'S

Oriental

# TOOTH POWDER

6d. & 1/-

in the Hygienic Containers.

A most PROFITABLE Line.

From all the Wholesale Proprietary Houses.

## "BLANCHET" HYGIENIC TOILET PAPER. NOTHING PURER MADE.



6½d. 45/- Gross. Carriage Paid.

Sole British Agents for La Française Hygienic Serviettes. A Revelation in Daintiness. 50 in a box. 8/6 dozen.

BLANCHET & Co., Barbourne, Worcester.

## OKELL'S ORIGINAL MONABOUQUET.

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.  
Retail Prices ... 1/-, 1/3, 3/6, 6/-, 7/6, 10/6, per Bottle,  
ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by  
THOMAS WEST & SON, 1187 Chester Road, MANCHESTER.  
Stretford.



WE SHALL ESTEEM THE FAVOUR  
OF YOUR INQUIRIES FOR:—

NATURAL  
FLOWER OILS,  
ABSOLUTE, LIQUID,  
CONCRETE, (SOLID.)

Rose.  
Orange flowers.  
Jasmin.  
Tuberose.  
Cassie.  
Reseda.  
Broom.  
Violet.

ARTIFICIAL  
AND  
SYNTHETIC  
PERFUMES.

Benzyl Acetate.  
Cheiranthine.  
Geranium Artificial.  
Musk Artificial (all qualities).  
Phenylethyl Alcohol.  
Artificial Violet 100%  
(all qualities).

ESSENTIAL  
OILS.

Almond.      Peppermint  
Bay.            (all qualities).  
Clove.          Petit Grain.  
Geranium      Rosemary.  
(all qualities).    Thyme.  
Lavender      Wintergreen.  
(all qualities).    Sassafras.  
Neroli. Lemon. Bergamot.

### SPECIALITIES.

Oil Oak Moss colourless.      Neroli, H.A.  
Oil Violet leaves colourless.    Orris Root concrete.

*Price Lists and Samples on Application.*

**CHARLES ZIMMERMANN & CO.**

9-10 St. Mary-at-Hill, LONDON, E.C.

## BARNETTS PERFUMES & COLD CREAM

STAND UNRIVALLED.

Samples and Prices (in bulk) on Application.

**BARNETTS PERFUMERY LTD.,**

126/128 Bristol Street, BIRMINGHAM.

AIR-TIGHT & SELF-FIXING CAPSULES.

**'SEMREH'**  
BOTTLE CAPS.

FIT ALL BOTTLES.

The necessity of purchasing specially shaped bottles or bottles with specially shaped necks does **not** arise when you use 'Semreh' Bottle Caps. Consider the convenience and saving in using Caps which fit perfectly the bottles and stoppers you have in stock!

FULLY DESCRIPTIVE BOOKLET FREE  
THE VISCOSE DEVELOPMENT CO., LTD.,  
Pembroke Road, BROMLEY, KENT.



# A. Boake Roberts & Co., Ltd.. STRATFORD, LONDON, E.

. . FOR . .

**SOLUBLE ESSENCES,  
ESSENTIAL OILS,  
OIL LEMON.**

If you wish to make first-class

∴ Aerated Waters, use ∴

**BOAKE ROBERTS' ESSENCES.**

**Finest Soluble Essences:**

Lemon,  
Orange,  
Ginger,

Ginger Ale,  
Stone Ginger Beer (*Cloudy*),  
Clear Ginger Beer,

Kola Champagne,  
Lime Juice and Soda,  
Lemon Squash,

Raspberry,  
Strawberry,  
Pineapple,  
Vanilla, &c. &c

**GOLDEN CARAMEL COLOURINGS, &c.**  
and all sundries.

**A. Boake Roberts  
& Co., Ltd..**



**S.V.M.****RANDALL & SON,**  
Limited.Wholesale and  
Export Druggists,

Best Quality Only.

**SOUTHAMPTON****HAIR SPECIALITIES of WARNER OLIVER, LTD.**

(FINEST IN THE WORLD).

4 HOLLES STREET, CAVENDISH SQUARE, LONDON, W.

- |                                     |                    |                                  |
|-------------------------------------|--------------------|----------------------------------|
| 1. "WARNOL" (Scalp and Hair Tonic). | 3. Liquid Soap.    | 5. Dry Shampoo (In powder form). |
| 2. Hair Lubricant.                  | 4. Powder Shampoo. | 6. Hair Brush Cleanser.          |

SELL THEM. CUSTOMERS WILL COME AGAIN AND AGAIN. WE KNOW IT, AND YOU WILL KNOW IT.

**ROBARE'S AUREOLINE**  
**Or GOLDEN HAIR WASH.**

4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOVENDEN &amp; SONS, LTD., and from all the principal Patent Medicine Warehouses in London.

**"JUGGLER"**  
BLACK FOR LEATHER  
Regd

FOR DYEING TAN BOOTS  
SHOES SLIPPERS BELT  
HARNESS ETC.  
A FINE RICH BLACK

MANUFACTURERS  
**WHITAKER & CO. COLOUR WORKS KENDAL,**  
(England)  
ESTABLISHED 1878  
LONDON DEPOT: 8, MILK ST. LONDON, E.C.

(Reproduction of our Attractive Showcard.)

**EASILY APPLIED. DRIES AT ONCE.**  
**ONE APPLICATION. DOES NOT RUB. WATERPROOF.**

Articles done with this black may be polished and worn 15 minutes after application. In bottles 6d. each, in separate neat carton with suitable brush.

WRITE FOR TERMS AND PARTICULARS.

WE ARE HELPING YOU WITH GOOD ADVERTISING

**BROOKS, PEEL & CO.,**  
Makers of Collapsible Tubes and Filling Machines for same. Patented  
Sprinkler and other Stoppers for Perfumes, Washes, &c. Screw Caps.  
109 BARTHOLOMEW ROAD, LONDON, N.W.

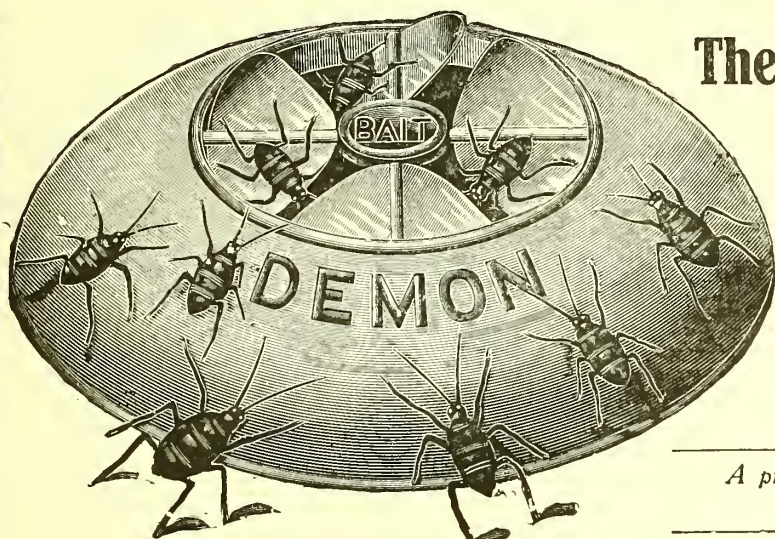
EVERY GENUINE PACKAGE

**EWEN'S LARD**  
is the  
**ONLY LARD**  
that  
is made exclusively  
for pharmaceutical  
and Perfumery  
preparations  
and is the  
**BEST AND  
MOST RELIABLE**  
Guaranteed B.P.  
Lard on the Market.

BEARS THIS LABEL



# Chemists sell Beetle Powder WHY NOT BEETLE TRAPS?



The "Demon"

(REGISTERED  
TRADE MARK).

## BEETLE TRAP.

See that the name "Demon"  
is stamped on every trap.

*A profitable side-line  
for all Chemists.*

JOSEPH SANKEY & SONS, LTD., BILSTON.

# A. DE ST. DALMAS & CO

Contractors to  
His Majesty's Government.

LEICESTER.

(Established 1823.)

— MANUFACTURERS OF —

## MEDICAL PLASTERS

**Spread Plasters.** Adhesive, Belladonna, Soap Cerate, Roborans, Fleshcolour Adhesive, &c.

**Hospital Strapping.** On Holland, Pure Stout Calico, &c.

**Porous Plasters.** All kinds. On Cotton Cloth, Red Felt, White Kid, &c.

**Rubber Adhesive Plaster.** On Cotton Cloth or Holland—In Tins or on Spools.

**Court Plasters, Toothache Plasters, Corn and Bunion Plasters, Mustard Leaves, &c.**

## SURGICAL BANDAGES

Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web,  
Crepe Velpeau, and Plaster of Paris Bandages.

— THE LEICESTER "VARICO" LEG BANDAGE. —  
TRADE MARK.



**WILEMAN & CO., Longton Staffs.**  
Wholesale only.

**THE "IDEAL"**  
**BED AND DOUCHE SLIPPER.**

RECD. 554407.

THE "IDEAL" is the latest and most thoroughly efficient Bed and Douche Slipper hitherto produced.

It is a favourite with Patients and Nurses alike.


The supporting lines and surfaces are specially moulded to the human form and give greatly increased comfort in use, more especially in cases where patients are very thin after long illness.

It is the most easily inserted form of slipper made, and this is an essential feature in severe illness and after operations, where the least possible movement is an absolute necessity.

The emptying outlet and flushing duct at the heel combine special and significant improvements, greatly appreciated by nurses in cleansing. The handles are so placed that the slipper is balanced for emptying as though on a pivot, and being at the side cannot get contaminated during the process. A specially designed and well fitting cover is also supplied at a small additional cost.

To be obtained of all the Leading Wholesale Dealers throughout the Kingdom.

**THE NEW 'ADAPTABLE' HOT WATER BOTTLE.**  
(REGISTERED DESIGN.)



Suitable for many purposes for which the old-fashioned shape is useless.

For BED-WARMERS.  
For CARRIAGES.  
For MOTOR CARS.  
For INVALIDS, &c.

Customers can have their names, &c., printed on reverse side.

**LOW PRICES. BIG DISCOUNT.**  
Sole Manufacturers:—  
**The Fulham Pottery & Cheavin Filter Co., Ltd. FULHAM LONDON, S.W.**

**"HOME" BATH CABINETS**



**50 TO 65**  
per cent.  
**PROFIT**  
for  
the Trade.  
For particulars apply—  
**RILEY BROS. Ltd., BRADFORD.**

**PATENT MINERALIZED INDIA RUBBER** (Red Mineralized and Arabesque).

**SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.**

Manufacturers of every description of **INDIA RUBBER**, Wholesale & Export only.

**WM. WARNE & CO., Ltd., 29 Gresham Street, LONDON, E.C.**

(See p. 176, Jan. 27, 1912.)



**ABSORBENT LINTS** **BANDAGES, COTTON WOOLS, &c., &c.**

Tel. Add.: "LINT PRESTON."  
Tel. No.: 323 PRESTON.

**WHOLESALE ONLY.**

Goods supplied in various qualities.

**VERNON & CO., LTD., Penwortham Mills, PRESTON.**

Agent: T. J. SANDERSON, 9 Fore Street Avenue, London, E.C. Tel. No.: 288 London Wall.

Apply for samples and prices.

A.B.C. Code 5th Edition.

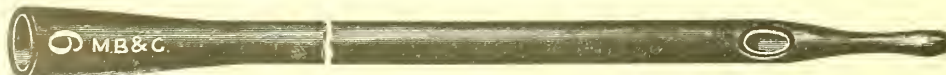
**TO WHOLESALE BUYERS AND SHIPPING MERCHANTS ONLY.**

Hand or Machine Made. To suit all Climates. Absolute Purity of Contents. Best Finish.

**Capsules TYE'S & Perles**

**JOHN TYE & SON, Manufacturing Chemists, Packington Street, LONDON, N.**

**ELASTIC GUM SURGICAL INSTRUMENTS.**



Catheters and Bougies, in Black or Brown Gum and Finest Silk Web. Specula, Rectal and Oesophageal Instruments.  
Horse Catheters and Cattle Probangs. Wholesale and Export only. Price List from the Manufacturers.

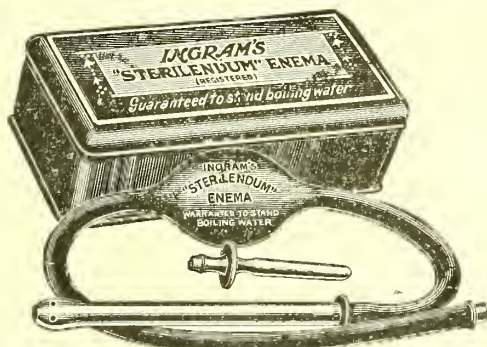
**MASON BROS. & CHAPMAN, 107 Whitecross St., LONDON, E.C.**



# A Profitable Line for the Chemist and Druggist.

**YIELDS A LIBERAL PROFIT.** **INGRAM'S "STERILENDUM" ENEMA** **LISTED on the P.A.T.A. List.**

**THIS ENEMA IS  
CONSTRUCTED  
UPON HYGIENIC  
PRINCIPLES.**



**THE MOST  
PERFECT ENEMA  
UPON  
THE MARKET.**

**STERILIZABLE  
IN ITS ENTIRETY.**

**NO METAL PARTS.**

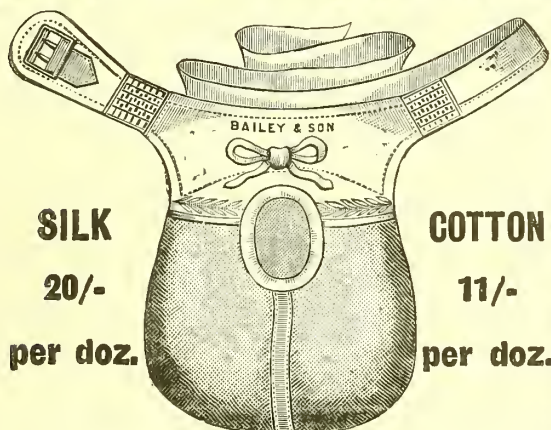
This Enema can be supplied fitted with Bone Rectum and Vagina pipes, and Metal Valves if desired, at the same prices.

We support the Trade by Advertising and assist your Sales by the aid of Circulars, Leaflets, Showcards, etc.

**THIS ENEMA IS OBTAINABLE FROM ALL WHOLESALE HOUSES.**

**Manufacturers: J. G. INGRAM & SON, Hackney Wick, LONDON, N.E.**

## BAILEY'S "A.B.C." SUSPENSORIES.



**SILK  
20/-  
per doz.**

**COTTON  
11/-  
per doz.**

**Assorted—A, small; B, medium; C, large bags.**

**W. H. BAILEY & SON,  
38 OXFORD STREET, LONDON, W.**

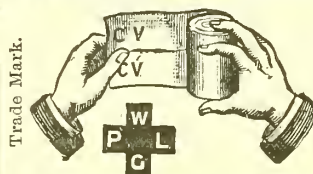
### PLEASE TRY OUR BOTTLES.

**Clear Blue Tinted.**  
3 & 4 6 & 8 12 16 ounce. } Plain or graduated, round edges.  
7 - 8 - 12 - 17/- per gross  
**FIRST QUALITY. Quinine Tinted.**  
3 & 4 6 & 8 12 16 ounce. } Round edges.  
10 - 11 - 18 - 20/- per gross  
**WHITE PHIALS—GOOD QUALITY.**  
1 1 1 2 ounce. } Plain or teaspoons.  
3 6 4/- 4/6 5/6 per gross  
The New Shape, Oval Fronted Bottles, 6 ounce size, 8/6 per gross.  
**PANEL BOTTLES, POISON BOTTLES, OVAL RIBBED BOTTLES, &c. &c., at lowest prices.**  
Carriage paid within 100 miles of Leeds, a little extra to other stations  
Bankers: London County and Westminster Bank.

**I. ISAACS & CO., GLASS BOTTLE MANUFACTURERS,**  
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.1  
or **ISLINGTON BOTTLE COMPANY,**  
7 New Inn Yard, Tottenham Court Road, London.  
Orders sent to either Establishment will have prompt attention.  
**ESTABLISHED 100 YEARS.**

### The New Fast Edge. CREPE VELPEAU BANDAGES

**THE ONLY ORIGINAL**  
Introduced by  
**W. GIMBER in 1892.**  
**AN ELASTIC BANDAGE.**  
Containing no India rubber.  
Superseding Elastic Stockings,  
Webbs, Bandages, and at half the  
cost. Three sizes—about 2, 2½,  
and 3½ inches wide.



**CREPE VELPEAU ABDOMINAL BINDERS.**  
Useful after many Abdominal Operations, and for ladies after confinements. Two sizes—8 and 11 in. wide.  
**CAUTION—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Marks on the Wrappers.**  
Wholesale of the original Importers and Introducers.  
**W. GIMBER & SON, Surgical Bandage and Instrument Makers.**  
44 QUEEN'S ROAD, PECKHAM, LONDON, S.E.  
And of all Wholesale Druggists, Chemists, Surgical-Instrument Makers, &c.  
Telephone New Cross 1601. Descriptive Circular and Price List on application.



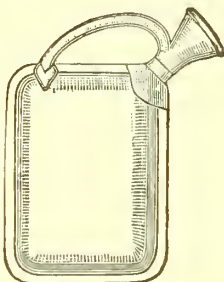
# REDUCED PRICES.

## INDIA RUBBER HOT WATER BAGS.

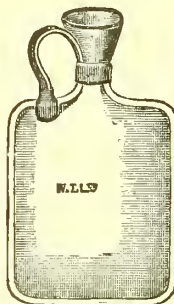
:: Guaranteed of Best English Manufacture. ::



457.



458.



1474.

Toogood's Special Quality, Figs. 457 or 1474—

9 x 6	10 x 6	10 x 7	10 x 8	12 x 6	12 x 7	12 x 8	12 x 10	14 x 7	14 x 8	14 x 10	14 x 12	16 x 10
3/1	3/5	3/10	4/-	3/10	4/4	4/7	5/3	5/-	5/2	5/9	7/-	7/- each.

Warne's Extra Super Quality, Fig. 457 or Burbridge's Patent, Fig. 458—

8 x 6	10 x 6	10 x 7	10 x 8	12 x 6	12 x 7	12 x 8	12 x 10	14 x 7	14 x 8	14 x 10	14 x 12	16 x 10	16 x 12
3/4	4/2	4/3	4/10	4/3	5/-	5/6	6/1	5/6	6/1	7/-	8/6	7/9	9/- each.

On Toogood's Special, in 1-dozen lots assorted, and upwards, an extra 5% is allowed.  
On Warne's Super " " " " 2 1/2% " "

**WILLIAM TOOGOOD, LIMITED, 77 Southwark Street, London, S.E.**

## THE LIVERPOOL LINT CO.

MARK STREET MILLS,  
NETHERFIELD ROAD NORTH,  
LIVERPOOL,

MANUFACTURERS OF

LINTS,  
BANDAGES,  
COTTON WOOLS,  
SURGEONS' TOW,  
CARBOLIZED TOW,  
SPLINT PADDING,  
WADDINGS, &c., &c.

As supplied to Home and Foreign Governments.

"IMPERMIETTE" (Waterproof).  
"IMPERMIETTE" BED SHEETING.  
"HEALTH" CHEST PROTECTORS.  
"YULNOPLAST."

ABSORBENT  
TISSUE.



FIRST FIELD  
DRESSINGS.

Telegrams :

"LINT LIVERPOOL."

BRILLIANT PLATE.

## "ALBATUM OR WHITE ROUGE"

■ GIVES A UNIQUE POLISH TO ALL SILVER AND ELECTRO-PLATED GOODS.

In 6d. and 1/- Boxes, and Tins, 2/-

**BRADLEY AND BOURDAS.**

6 PONT STREET, S.W.

## The WINTER ISSUE of The Chemist & Druggist

will be published on January 25, 1913.

Firms desirous of sending  
out their Price Lists or  
Circulars should put the  
matter in hand before the  
Christmas Holidays arrive  
and write at once to secure  
room to—

**THE PUBLISHER,**  
42 Cannon Street, London, E.C.



# Seamless or Spiral Elastic Hosiery.

BEST QUALITY  
BEST SHAPE  
CORRECT SIZE

*In Drab, Pink, or White*

BEFORE BUYING ELSEWHERE SEND FOR SAMPLES AND PRICES.

SOLE MAKERS:

**SURGICAL HOSIERY COMPANY, LIM.**  
Russell Street, NOTTINGHAM.

"SURCO" SEAMLESS



A PERFECT FIT.

The Original and only Genuine

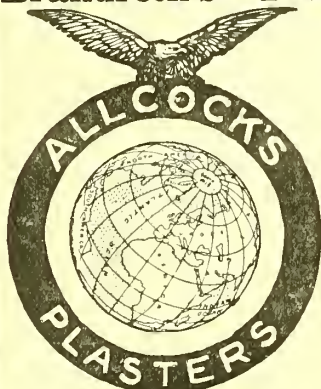
## Allcock's

**POROUS PLASTERS**

A REMEDY OF 60 YEARS' STANDING.

**Allcock's Plasters  
Allcock's Corn and  
Bunion Plasters  
Brandreth's Pills**

*The  
Three  
Reliables.*



A HANDSOME  
SHOWCARD  
will be sent  
free of cost  
and post paid  
on application.

ALLCOCK . . .  
MANUFACTURING  
COMPANY . . .  
22 Hamilton Sq.,  
Birkenhead.

"Sold all round the World."

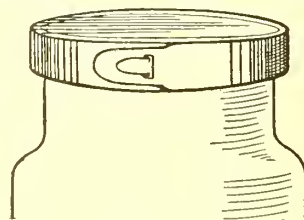
Telegraphic Address: "Advertence Ave London." Telephone: Lon. Wall 2994

## The AIRTIGHT CAPSULES CO. Ltd.

Suppliers of PHOENIX, AUTOMATIC, SCREW CAPS, &c.

PHOENIX HERMETICAL CLOSURE.

The ideal and only  
absolutely Hermeti-  
cally Sealed Cap for  
all classes of Glass  
Packages as used  
by all Manufactur-  
ing Chemists.



SEALED.

The following firms, amongst others, have adopted the  
Phoenix system, in conjunction with the Firtree disc,  
with unqualified success.

FIRTREE

ANTISEPTIC



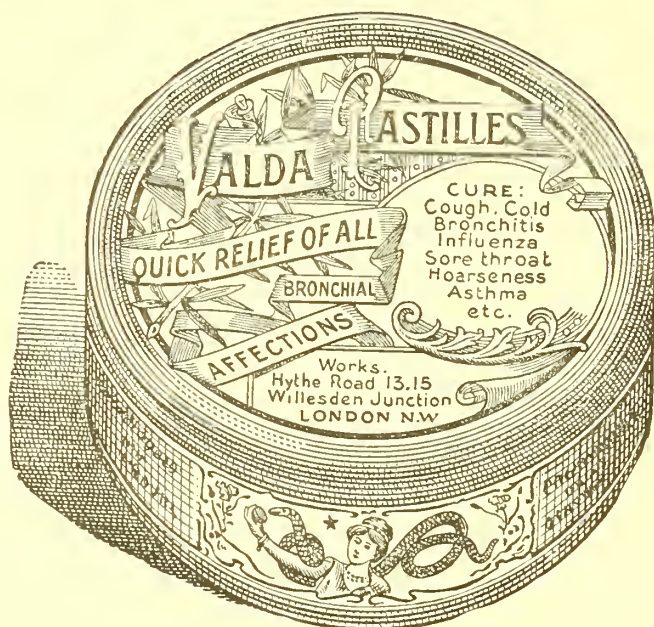
Trade Mark.

Messrs. THE BRITISH DIA MALT CO.  
Messrs. GOODALL, BACKHOUSE & Co.  
Messrs. CALDERS YEAST CO., LTD.  
Messrs. VIROL, LTD.  
Messrs. HARKNESS, BEAUMONT & Co.

This Firtree disc is used in conjunction  
with Phoenix and Screw Caps for Malt  
Extracts, &c., and is supplied under  
registered Trade Mark, and is guaran-  
teed pure for use with Food-stuffs  
according to the Act.

Fulllest information with quotations on application.  
Offices and Showrooms } **317, 318, 319 DASHWOOD HOUSE,  
NEW BROAD ST., LONDON, E.C.**





## NEW YEAR

In thanking Chemists for their support,  
during the past year, we take this  
opportunity of wishing one and all  
Increased Prosperity in 1913.

# VALDA PASTILLES,

*Up-to-date Laboratories and Works,*

**13 Hythe Road, Willesden Junction,  
LONDON, N.W.**





# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 28, 1912

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



## The New Year

is before us with its hopes, its fears, its joys and its possibilities. We trust that, as in the past, all in the drug and allied trades will continue to confide their difficulties to us. This co-operation (in which The C & D Supplement plays a considerable part) will tend to make 1913 for us all

### A RECORD IN PROSPERITY.

*The Chemist & Druggist, 42, Cannon St., London, E.C. Dec. 28, 1912.*



## Insure against loss

of profits, by periodical stocktaking, and an annual balance sheet. We are experts in valuation of stock and detail in Chemists' business, so with our help you can secure that confidence in your business which

## means Prosperity and Happiness

### Messrs. ORRIDGE & CO.,

*Valuations for Stocktaking.*

Messrs. ORRIDGE & CO. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss. Messrs. ORRIDGE & CO. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**



# BRETT & CO. PARSON C. BAKER

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

F. J. BRETT, M.P.S.,

**GIVES PERSONAL ATTENTION TO ALL VALUATIONS.** — AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

## STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

- 1.—SOUTH-WESTERN COUNTY.—Best-class Dispensing Business in well-established watering town; returns nearly £1,550; further particulars upon application.
- 2.—NORTH-EASTERN COUNTY.—Select Dispensing Business for Disposal privately; returns £1,500; net profits over £500; references with inquiry; solely in our hands for disposal.
- 3.—ESSEX.—Light Retail; returns last 3 years average over £650; situated on the Coast; rent £24; has done £900 under qualified man, and can again; price £350.
- 4.—HAMPSHIRE.—Returns nearly £900; net profit £300; rent £240; 50 years' establishment; fine position; price £675.
- 5.—RICHMOND (near).—Light Retail and Dispensing; well-fitted shop; returns £1,250; price £800.
- 6.—MANCHESTER.—Light Cash Retail. Dispensing, etc.; splendid position; returns approach £1,200; net profit £300; price £850; rental £45.
- 7.—WORCESTERSHIRE.—Returns £500; net profit £150; price £300.
- 8.—MANCHESTER (near).—Returns £400; net profit £140; price £100.
- 9.—GLAMORGAN.—Returns £960; net profit £250; rental £40; vendor's hands for the last 40 years; valuation £600.
- 10.—LIVERPOOL.—Several Light Retailers for Disposal; returns £500 to over £1,000; all prices.
- 11.—LONDON (30 miles from).—Light Retail and Dispensing Business; returns £1,400; net profit over £300; every investigation offered; valuation £750.
- 12.—N. STAFFS.—Returns £1,400; rent £40; price £750.

### PERSONAL

attention given to all Valuations and Stocktakings; 50 years' practical experience; write for terms.

174 VICTORIA ST. LONDON, S.W.

Recommended by—MESSRS. BARON, HARVEYS & CO.

Telephone: No. 27 Victoria. MESSRS. MEGGESON & CO.

MESSRS. BAROLAY & SON, LTD.  
OLD-ESTABLISHED Dispensing in Midland Health Resort; returns over £1,500, and net profit over £45; large shop and excellent house; rent £100; or can be purchased; price, valuation and agreed goodwill, or offer.

IN centre of High Street, East Coast Pleasure Resort, owing to death of proprietor, old-established Business, neglected, will be Sold for value of stock and fixtures or first offer; rent only £38; undeniable opportunity to young man.

DEATH VACANCY.—Good Dispensing and Family trade; returning over £1,000, with good house; rent £75; price for early sale £50; in capital town, Midland County.

IN same town as above, in leading thoroughfare, an old-established General Cash Retail, at good prices; vendor retiring; first-class opportunity for young business man; business can be indefinitely extended.

Valuations, Estimations, Examinations made in town or country on most moderate terms.

WANTED to purchase, Business returning from £2,000 to £5,000 per annum; cash waiting.

# TOMTOM

Telegraphic Address:

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers.

Businesses transferred privately.

45A MARKET STREET, MANCHESTER.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

# MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

Have the following Businesses for Disposal. (No charge to purchasers.)

### VALUATIONS.

We make valuations for all purposes.

### STOCKTAKING.

Taking stock every year is much more necessary than most Chemists think, if only for the following reasons:—

- 1.—You know to a penny the exact profit you have made which is an important factor when you want to sell your business.
- 2.—We tell you if you are over-stocked, and if so, where, and you can reduce accordingly.
- 3.—You know if you are fully insured against fire, and in the event of your being burnt out (which might occur at any time) the Insurance Company could not dispute your claim if our stock-sheets were produced, and it might save you hundreds of pounds.
- 4.—You know the exact value of your business.
- 5.—In the case of Branch shops, it is the only absolute test as to whether you are losing or making money, besides being a check against leakages and errors.

### OUR TERMS ARE LOW.

So low, that any ordinary Chemist can afford them, and in employing us you secure the services of a firm who are Experts, and have a reputation backed with over 40 years' practical experience.

1.—WEST OF ENGLAND (Market Town).—Good Family Retail, Dispensing, and Agricultural; selling solely through continual ill-health; returns exceed £1,500; good profits; central position; stock and fixtures worth over £1,000; price £1,200; strongly recommended.

2.—CHESHIRE.—Light Cash Retail, with Dispensing and valuable Proprietaries; returns £1,140; net profit £300; large attractive Pharmacy, in good town, well fitted and stocked; price £650.

3.—SUSSEX COAST (Rising Resort).—Good-class Retail Dispensing and Photographic, in splendid position; returns £1,100; excellent premises; price, valuation, about £700.

4.—SURREY (20 miles out).—Light Retail and Dispensing Business, pleasantly situated; unopposed; returns £670; net profit £238; modern house, every convenience; price £500; recommended.

5.—WEST MIDLANDS.—Unopposed good-class Light Country Retail, pleasantly situated; returns £1,000; expenses practically nil; net profit £450; modern Pharmacy, well stocked; price £650.

6.—DEVON.—Old-established Light Retail and Dispensing Business, in good position, market town; returns £700; net profit £200; plenty of scope; large house and shop, fully stocked; price £500.

7.—LINGS.—Unopposed General Country Retail, under manager; returns £450; scope for doing £700; low rent; shop recently refitted; good stock; price £275, or valuation.

8.—HAMPSHIRE.—Light Family Retail and Dispensing Business, in good town; returning over £1,000; net profit £280; low rent; good house; well-fitted shop, heavily stocked; price £750, or offer.

9.—LONDON SUBURB.—Good-class Cash Retail, in fine main-road position; returns £1,550; net profit £400; handsome shop, fully stocked; price £1,000, or valuation; trial allowed.

10.—KENSINGTON.—Good-class Retail and Dispensing Business; returns over £1,000; net profit averages £321; well-fitted shop, well stocked; price £800; worth attention.

11.—VICTORIA STATION (near).—Light Retail and Dispensing Business, in splendid position; returns £1,050; scope for doing £1,500; price £650, or £100 and valuation.

12.—HAMPSHIRE.—For immediate sale, good-class Retail and Dispensing Business; returning £1,250; good profits; main-road position; handsomely fitted and well stocked; price £600.



**BUSINESSES for DISPOSAL**

8s. 6d. for 50 words or less: 6d. for every 10 words or less beyond, prepaid.

**COLONIAL BUSINESSES.**

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.

Trade circulars, samples, and printed matter can in no case be forwarded.

**AMBLE**, Northumberland.—For Sale, the business of the late George Waters; a good Dispensing, Prescribing, and Mixed Retail Business in main street of a mining, shipping, and sea-coast town; low rental; price, valuation of stock and fixtures. Apply, Mrs. Waters, Bede Street, Amble.

**SOUTH CHINA**.—Very old-established Chemist's and Druggist's Business for Sale; old age sole cause of disposal; British subjects to be qualified Chemists and Germans must possess certificate of Government examination; capital required £1,000 and upwards. Apply to Bobers & Schrader, 13 Crutched Friars, London, E.C.

**FOR** immediate Disposal, old-established but neglected Business in inland Scotch town; good Agricultural centre; terms easy; rent £19; good opportunity for enterprising young man. Apply, 62/27, Office of this Paper.

**IN** an important Midland Agricultural county town; splendid position; old-established; no near opposition; takings over £1,100, nearly all cash; easily increased; to immediate purchaser valuation only, about £800; part can remain; an opportunity rarely met; opening for Optics; no agents. "Genuine" (63/36), Office of this Paper.

**ONE** of the best Retail Country Businesses in Scotland in a thriving Manufacturing and Agricultural town; will require £1,500. Apply to "E. E.", c/o Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

**CHEMISTS' AND DRUGGISTS' BUSINESS FOR SALE AS A GOING CONCERN.**

**THAT** old-established and well-known Business of Chemists and Druggists carried on by Messieurs D. Russell & Son, at 111 Nethergate, Dundee, is for SALE as a going concern. Immediate entry can be given. A lease of the premises may be arranged. For further particulars apply to Mr. David W. Logie, Solicitor, 20 Murray Place, Stirling, or Messrs. Jas. A. MacLean & Sons, Auctioneers, Tay Street, Dundee.

20 Murray Place, Stirling, December 19, 1912.

**BUSINESSES WANTED.**

**BONUS** of not less than £5 (if adopted) will be given for information as to an opening for a Chemist in a good-class populous neighbourhood; fittings and capital ready; informant might be employed as Manager. Full particulars to "E. G.," 18 Cornhill, E.C.

**APPRENTICESHIPS.**

**W. BLAND BOTHAM**, Undergraduate (in Honours) of London University, Pharmaceutical and Dispensing Chemist, Bournemouth, has a vacancy for a well-educated, gentlemanly youth as Apprentice; time for study, lectures, and recreation; exceptional opportunity for thorough training under personal supervision; moderate premium.

**APPRENTICE**.—Wanted, to place a youth, age 17, in a Chemist's, Druggist's, and Drysalter's business; in the Midlands preferred. R. Knight, 306 Birchfield Road, Handsworth, Birmingham.

**WANTED**, gentlemanly well-educated youth as Apprentice (outdoors) in good-class business; no premium required; small salary given after first year. Enclose photo to E. Gerrish, Dispensing and Photographic Chemist, Quay, Bideford.

**SITUATIONS OPEN.**

8s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

**NOTE**.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

**RESULTS**  
OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK DEC 21 1912  
NATURE OF ADVT REPLIES

BRANCH MANAGER	27
ASSIST: SMART DISPENSER	18
" QUAL.	17
" UNQUAL.	12
AGENTS WANTED	12
LABORATORY PHARMACIST	12

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

**TO SAVE TROUBLE.**

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

**ANSWER IN TERMS OF THE ADVERTISEMENT AND**

**REMEMBER** you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

**BE BRIEF BUT CLEAR**.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

**RETAIL.**

**BURSELEM**.—Good Junior, about 25 years, for Country Wholesale and Retail; outdoors; single; short hours; must be good Salesman; state age, height, and experience, with references and salary required; permanency for good man; 4 others kept; for Monday, January 6. Thos. Leicester, Chemist, Burslem.

**LIVERPOOL**.—Up-to-date Manager required, middle January; must be energetic, Window-dresser, and able to control staff; Optical knowledge an advantage. Three recent testimonials to "Veronal," c/o Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

**LONDON**.—Required, for first-class business, with Herbal Department, experienced and energetic Manager; applicants must furnish highest references as to character and be quite familiar with Herbal remedies; good salary offered to suitable man. 62/29, Office of this Paper.

**LONDON, S.W.**—Assistant, qualified preferred, chiefly for the Dispensing Counter; must write a good hand. Apply, W. Ive, 115 Gloucester Road, South Kensington, S.W.

**LONDON, N.W.**—January 1, qualified Assistant wanted for Dispensing business. P. Davidson, Ph. Chemist, 342 High Road, Brondesbury, N.W.



**MANCHESTER District.**—Experienced qualified Manager for Branch business; knowledge of Optics. Apply, with full particulars and photo, to "H. T.," c/o Messrs. J. Woolley, Sons & Co., Ltd., Manchester.

**NORTH WALES.**—Qualified Manager for good Country Branch; excellent position for good man; must seek permanency or need not apply; must be good and keen Counterman, energetic, and able to Prescribe; must give undeniable references; salary and commission; Welsh-speaking not essential, but an advantage. "Radix," Whybrow House, Wrexham.

**OLDHAM.**—Qualified Assistant for brisk Retail trade; must be quick and reliable, a good Salesman. State age, height, experience, references, and salary required, enclosing photo, 65/38, Office of this Paper.

**ASSISTANT**, unqualified, wanted at once for Mixed Retail and Dispensing; abstainer preferred; must have satisfactory references. State age, salary, experience (permanency), Perkin, Tamworth, Staffs.

**DISPENSING and Light Retail.**—Wanted, conscientious gentlemanly Assistant early in January; reasonable hours; time off for recreation; Sunday duty practically nil; comfortable home (present Assistant with me about 4 years). Apply, with full particulars as to age, height, salary, and enclose photo, to "Seaside" 65/17, Office of this Paper.

**ELDERLY** qualified Assistant required for medium-class business; permanency to suitable man. Give particulars of experience and state salary required, 62/029, Office of this Paper.

**F. G. ACTON**, Worcester, requires immediately a young unqualified Junior Assistant; outdoors; Scotchman preferred.

**IMPROVER or Junior** wanted immediately; outdoors. State age, height, and salary required, also enclose photo if possible, to H. Cox, 132 High Street, Wealdstone.

**IMPROVER or Junior** Assistant wanted immediately for Mixed Retail and Dispensing business. State age, height, and salary required, with photo if possible, R. M. Crodale, 340 Manchester Street, Oldham.

**IMPROVER** for good-class Family and Dispensing business. Apply, stating age, height, salary required, and when disengaged, with photo, to T. Furness & Son, The Pharmacy, Chesterfield. Applications not answered in 3 days declined.

**LADY Dispenser.**—Firm of Chemists are requiring a few Lady Dispensers possessing Minor qualification; comfortable posts for suitable applicants. State age, salary required, and send photo (if possible), 62/290, Office of this Paper.

**OWING** to illness of proprietor, an elderly qualified man, single, is required for Dispensing and part Management; light duties; comfortable home; moderate salary; good references. Apply, in first instance, J. Waterhouse & Co., Ltd., Church Street, Ashton-under-Lyne.

**PROPRIETOR** of several high-class Dispensing Businesses requires qualified Managing Assistant, in- or out-doors; must be well educated and of good appearance and address; good and progressive salary to one possessing energy and ability and with knowledge of Optics. State full particulars, enclosing photo, etc., to "Pharmacist," c/o Messrs. Maw & Sons, London.

**QUALIFIED** Assistant for Branch in Colliery District, early January; Welsh-speaking; abstainer; permanency; good references. State age, salary, enclose photo, to D. George, Pentre, Glam.

**QUALIFIED** Assistant wanted at once, principally for small Branch; outdoors; short hours; comfortable berth; good board obtainable at 15s. week; salary must be strictly moderate. Full particulars, with photo (returnable), to N. S. White, Earl Shilton, near Hinckley.

**REQUIRED** immediately, qualified Junior Assistant; must be of good character and anxious to get on. State age, salary required, and references, 62/209, Office of this Paper.

**UNQUALIFIED** Assistant wanted, quick and obliging Counterman, good Window-dresser and Stockkeeper, for Mixed Country business. State height, age, salary, references, Mousley, Chemist, Redditch.

**WANTED**, qualified Senior Assistant, of gentlemanly appearance and address, for high-class Retail, Dispensing, and Optical business; must possess a thorough knowledge of the business in all its branches. State age, height, salary expected (in- or out-doors), and enclose photo, to J. T. Davies (Chemists), Ltd., Swansea.

## WHOLESALE.

**A LONDON** firm specialising in Toilet and Perfumery Packed Goods require Representatives for South Coast, Lancashire, and Scotland. "Oxford" (159/14), Office of this Paper.

**GOOD** salary offered to Representatives who have established Perfumery connections; the following territories are open: Lancashire, South Wales, South Coast, Scotland, and London. Full particulars of experience will be treated in confidence, "Ambition" (159/140), Office of this Paper.

**HIGHLY** Profitable Side-line.—A well-known firm of British Electric-lamp Manufacturers desire to enter into a confidential arrangement with Travellers already calling upon Chemists, Druggists, Oil and Colour Men, to sell their Tungsten Lamps; liberal commission to suitable men. Write, in strict confidence, giving particulars of present business and ground covered, to "Lamps," 75 Deodar Road, Putney, S.W.

**REPRESENTATIVES** on salary and commission for Lancashire, Scotland, and South Coast required; must have established connections and be able to influence business. Apply, giving full particulars, to Van Essen, James & Co., Ltd., 100 Bermondsey Street, London.

**TRAVELLERS** required to sell a special Toilet proposition with good advertising and selling scheme behind it; commission only. "Meloy" (159/104), Office of this Paper.

**WANTED**, by old-established Manufacturers of Proprietary Articles, young man, fully qualified; Analysis, Dispensing. Apply, giving full particulars, Box 20, Gordon & Gotch, 15 St. Bride Street, E.C.

## SITUATIONS OPEN

(Colonial, Indian, and Foreign).

**3s. 6d. for 50 words or less, 6d. for every 10 words or less beyond, prepaid.** Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

**TRANSVAAL.**—Young qualified Assistant, unmarried, wanted for a high-class Pharmacy; must have had very best experience, preferably West-End of London; salary £19 per month first year, £20 second, £21 third; outdoors; second saloon passage paid out; 3 years' agreement. Apply, by letter only, "V.," 73 Newlands Park, Sydenham, S.E.

**WANTED**, Straits Settlements, Assistant, qualified, about 23 to 26, with good knowledge of Photography and Optics and good all-round experience; 4 years' agreement; salary £245, advancing to £335; free rooms and medical attendance; passage paid out and home. Apply, with full particulars, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate, London.

## SITUATIONS WANTED.

**1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.**

**NOTE.**—Replies can be addressed to this office and forwarded to the Advertiser for an Additional charge of 6d.

[HOME.]

RETAIL.

### NO TIME LOST.

Writing on December 23, an Assistant (62/23) states:

"I will take this opportunity of saying that my 1s. advertisement in your Supplement brought me 12 replies of a favourable nature, and I was actually engaged and at work in a pharmacy by 4 o'clock of the same Friday afternoon. I thought it only fair to let you know this."

**CAPABLE**, reliable; permanency town, Locum town or country; wide experience; good Prescriber and Dispenser; trustworthy references. Forster, 5 Coleridge Road, Finsbury Park, N.

**CHEMIST**, Analytical and Pharmacy, knowledge of Photography, seeks engagement in Pharmacy or Chemical Factory. 63/18, Office of this Paper.

**DENTAL** Mechanic and Operator; home or abroad. "Vulcan" (62/30), Office of this Paper.

**IMPROVER** requires situation where he can learn Dispensing, etc.; age 19; height 5 ft. 8 in.; had 3 years' apprenticeship indoors. Cullum, "Eversley," Queen's Road, Newbury.



**IMPROVER** (21), just finished apprenticeship, desires situation in good-class Dispensing business. 63/30, Office of this Paper.

**JUNIOR**; 20; tall; 4 years' experience; outdoors; abstainer; good references. Crook, 45 Park Street, Maidenhead.

**LADY Dispenser** (19); professional Prelim., Apothecaries' Hall; with Doctor or in Hospital. "D.," "Craggie," Mansfield Road, Heanor, Notts.

**LOCUM** or temporary; qualified; 28; disengaged. "Chemist," 67 Pennard Road, Shepherd's Bush, W.

**MANAGER**; Major qualification; excellent West-End experience. "G. S.," 219 Milkwood Road, S.E.

**PART-TIME**; South London preferred; wide experience; Extractor. "Dis.," 25 Augusta Road, Ramsgate.

**QUALIFIED**; 28; first-class experience; disengaged. "Chemist," 67 Pennard Road, Shepherd's Bush, W.

**QUALIFIED**; 27; tall; excellent appearance and address; as Manager or Senior; disengaged January 21. "Pharmacist," 2 Carlton Villas, Belle Hill, Bexhill.

**QUALIFIED**; disengaged; Assistant, Relief Manager; thoroughly experienced; recommended. 22 Thorpebank Road, Shepherd's Bush, W.

**QUALIFIED**; 25; high-class Dispensing and General experience; good references; Photography; disengaged. 63/33, Office of this Paper.

**QUALIFIED**; aged 33; permanency. Long, 37 Somerville Road, New Cross Gate, S.E.

**QUALIFIED Manager**; disengaged; permanency preferred; steady and reliable; abstainer; good all-round experience; excellent reference; Locum engagement entertained. 6 Windeor Road, Lowestoft.

**UNQUALIFIED Assistant**; 24; London experience; capable; abstainer; London preferred. "H.," 24 Kinerailg Street, Roath, Cardiff.

**UNQUALIFIED**; Assistant, Dispenser, or Branch Manager; first-class business man; 34; good Counterman, Prescriber, and Dispenser; Optics; highest references; obliging; disengaged January; will make services valuable. "The Advertiser," 12 Heaton Street, Brampton, Chesterfield.

**UNQUALIFIED**; Senior or Branch; town or country; competent, energetic; 36; Prescriber, accurate Dispenser, Photography, Agricultural, good salesman, window-dresser; highest references; permanency; disengaged; thorough all-round experience. "Rhei," 37 Alma Street, Taunton, Somerset.

**UNQUALIFIED**; Locum or Part-time; London only. "Statim," 90 Wells Street, Camberwell, S.E.

**HOUSEKEEPER**; Chemist's widow; middle-aged; very domesticated, economical, cheerful, and musical; now disengaged. "M. T.," 99 Crouch Hill, N.

## WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

**EXPERIENCED Representative** desires re-engagement; large Medical connection, South and West of England. 63/39, Office of this Paper.

## MISCELLANEOUS

**MACADAM & TUCKNISS**, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Lee Green.

**SHARES FOR SALE** (free of commission, subject).—150 Acrotors Preferred Ordinary, 18s. 6d.; 35 Allenbury "B" 6 per cent. Preference, 23s. 11d.; 500 Baryta, 6s. 11d.; 500 Bryant & May Ordinary, 19s. 9d.; 300 Ilford Ordinary, 13s. 7½d.; 5 Evans Leecher Preference, 103s.; 100 Lewis & Burrows Preference, 11s. 6d.; 20 Benger's Ordinary, 7s. 3d.

**WANTED** (subject).—Camwal Debentures, 33½; Idris Debentures, 58½.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London and County and Westminster.

### GET MORE MONEY

out of your window. I can double its selling power for a few shillings. No vulgar "booming" displays. A. W. Bromley, Chemist, Whetstone, Middlesex.

**CHEMISTS' SHOPFITTINGS** (second hand).—Ranges Mahogany Drawers, Bevelled Edged, Glass Labels, Cut-glass Knobs, Shelving, Lookers; Mahogany Dispensing-screens; Glass-fronted Counters; Piano-fronted Wall-case, Mirror Centre; Bent Front Counter-cases; Desks; complete Shop-rounds, Window Backs, Glass Shelves, etc.; extensive stock; give-away prices; high-class Fittings, bang up to date; Estimates. D. MATTHEWS & SON, 14 & 16 Manchester Street, Liverpool.

**CHEMISTS' Shopfittings**.—Window Enclosures, Showcases, Silent Salesman, Dispensing Screens, Wall-cases, Perfume-cases, Glass-front Serving Counters, Drug Drawers, Counter Drawers, second-hand, shop-soiled, at unbeaten prices; you can't do better; 30 years fitting Pharmacies. Send for free estimate, George Cook, The Working Shopfitter, 30 Buttesland Street, East Road (near Old Street Tube Station).

### Dose Tables for Students of Pharmacy.

**A TWENTY-FOUR** page booklet showing the adult doses in ordinary cases of the principal medicinal agents, with metric equivalents for dispensing and a complete table of atomic weights, comprising the B.P. figures, and the International Committee's latest pronouncements (O=16 and H=1). The booklet measures 4 in. by 2½ in., and can be carried in the vest pocket. To be obtained from THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., for THREE PENNY STAMPS PER COPY.

**MCQUEEN'S** System of Accounts for Chemists; works out gross and net profits, balance sheet, and income-tax return with guaranteed certainty; a work well known and considered indispensable by progressive Chemists (Tenth and improved Edition). Full particulars and testimonials, post free, McQueen & Co., Moat Road, E. Leicester.

## SHOPS ACT, 1912.

Shop Inspectors are looking sharply at Chemists' shops. Medicines and Medical and Surgical Appliances may be sold during closed hours if the statutory notice is exhibited. Two cards are necessary, and will be sent post free on receipt of eight penny stamps, The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

### "IS IT LIABLE TO MEDICINE STAMP DUTY"?

This question is easy to answer if you have at your desk one of the new C. & D. chart-cards showing grounds of liability and exemption. Sent post free for four penny stamps. The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

**THE** Proprietors of the following Patent, videlicet, No. 1842 of 1908, for "Improvements in the Manufacture of Titanium-nitrogen Compounds," are desirous of disposing of the Patent rights or of negotiating for the grant of Licences to work thereunder. All inquiries to be addressed to Johnsons & Willcox, Chartered Patent Agents, 47 Lincoln's Inn Fields, London, W.C.

**SECOND-HAND CHEMISTS' FITTINGS**.—We have an exception ally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

**POISONS SCHEDULE**, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front, list at the back) to hang up; price 4d., post free, from THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

**CHEMISTS' SHOPFITTINGS**, very cheap.—12-ft. Mahogany and Plate-glass Serving Counter, £9; 6-ft. very handsome Dispensing-screen, Mirror Centre, and Sponge-case under, £13 10s.; 2.5-ft. Mahogany and Glass Wall-cases, £7 each; 6-ft. bent Plate-glass Counter-case, 90s.; Perfume-case and Desk, 55s.; quantity of other Fittings, Recess Bottles, Jars, etc. PHILIP JOSEPHS, 93 Old Street, Goswell Road, London, E.C.



### THE REASON WHY

Pharmacists who join me stay 2, 3, 4 and 5 year is this: They are satisfied with my Business System. Up-to-date Ideas in Advertising, New Specialities, and Window Shows are my speciality. Start the New Year well, make a resolution to send for copy of my Booklet, "How to Increase Your Business," now. Post free Pharmacists only. Last week had to refuse two Pharmacists as I was engaged in their town.

**BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD.**

### TWO ADVTs. IN C. & D. DIARY

Will be found on pages 104 and 493. When it arrives look for them. Don't wait till you get that however but send for my free booklet, "How I Increase Chemists' Businesses." Insurance expert and six chemists on literary staff. Eight men's brains to help you.

**BERNARD SLACK, 9 King Street, WOLVERHAMPTON**

### THE CHEMISTS' FRIENDLY SOCIETY.

(Approved by the National Health Insurance Joint Committee.)

#### HONORARY SECTION.

Pharmacists in business, and others eligible and interested are invited to apply for enrolment as Honorary Life Members. Particulars from:—

**WILLIAM McCALLUM, C.A., Manager, 194 St. Vincent St., Glasgow.**

### CHEMISTS' TICKETS!

**F. MERTEN & CO.** Advise all Chemists (before placing their orders) to write for Samples of their — **MOST SELECT, EFFECTIVE, & CHEAPEST WINDOW TICKETS OBTAINABLE;** also a Specialty of theirs is the production of Display Figure-Sketch Cards, portraying various ailments, etc.

Write at once—72 MARLBOROUGH RD., UPPER HOLLOWAY, LONDON, N., to obtain satisfaction.

## EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

### FOR DISPOSAL.

#### MISCELLANEOUS.

**WEIGHING machine,** stamped 1911, complete with measuring rod, 40s. **HETHERINGTON, Chemist, Moffat.**

#### WANTED.

**PILL-MACHINE,** 3 gr., good condition. State price, **EVANS, 239 Hammersmith Road, W.**

**OPTICAL books;** Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. **GOWER, Bookseller, Waterloo, Liverpool.**

To Dealers in Chemists' Fittings and Others.—Wanted. fittings for fixing up small room as Dispensary; must be in good condition and price reasonable. 60/6, Office of this Paper.

### THE EXCHANGE COLUMN.

#### TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their bona-fides.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Haleo," and crossed "Martin's Bank, Ltd."

## Thursday's News.

42 Cannon Street,  
London, E.C.,

December 26, 1912.

### National Health Insurance.

The leading newspapers of to-day contain columns of news in regard to the medical practitioners' attitude in respect to the formation of medical panels, besides a statement by Dr. Cox, Secretary of the British Medical Association, in reply to the six practitioners who have resigned their seats on the Council of the Association (see page 89 of this issue). The "British Medical Journal" contains fifteen pages of a report of the Memorial Hall meeting (see page 88). What specially interests chemists is a motion in respect to treatment of insured persons. Dr. Benham (Brighton) moved that 8s. 6d. per capita per annum should include drugs. This motion was ultimately merged in the general resolution (page 88), but an amendment by two Scotch members (Dr. Bowie, Edinburgh and Leith, and Dr. Easterbrook, Lothians) "that in those areas where practitioners do not wish to dispense the capitation fee should be a minimum of 7s." was defeated. This shows the temper of the meeting, the whole tone of which, so far as the official report indicates, was essentially that of a forlorn hope. Dr. Herbert Mills, hon. treasurer of the *National Insurance Practitioners' Association*, states that among doctors who have accepted the vice-presidency of the Association are Dr. Lauriston Shaw (London), Dr. Buist (Dundee), Dr. Farquharson (Durham), Dr. Maclean (Cardiff), Dr. Taylor (Salford), Dr. Ward Cousins (Portsmouth), ex-president of the British Medical Association, Dr. Keary (Greenwich), and Dr. Emrys Jones (Manchester).

**MEDICAL PANELS.**—It was announced, after a meeting of Enfield doctors on Tuesday night, that they had agreed to serve on the panel. On Christmas Day nineteen out of twenty-four doctors in Stepney decided to join the panel, and over 120 medical men in the Camberwell district have come to a similar decision. The most interesting metropolitan item is in regard to a meeting of the sub-committee of the County of Middlesex Insurance Committee, which met at Caxton Hall, Westminster, on Christmas Eve for the purpose of interviewing practitioners willing to work the Act. The medical men had to run the gauntlet of meeting members of the British Medical Association, who buttonholed everyone and with all the zeal and persistence of a trade union picket endeavoured to dissuade them from attending the meeting. The meeting was attended by fifty-five doctors, Mr. W. S. Glyn-Jones, M.P., being chairman. After he had explained the object of the conference, the members of the Committee withdrew, leaving the medical men to discuss between themselves the course they should adopt. When they returned to the meeting the Committee were informed that the medical men had unanimously decided on the capitation method of remuneration. A small committee of eight doctors was appointed, with whom the sub-committee might confer next week in regard to other matters of detail under the Act. The doctors present came from all parts of the county of Middlesex, and it was stated that those present were quite satisfied that there would be little difficulty in establishing panels throughout Middlesex.

In the course of an interview, says the "Daily Telegraph," Mr. Glyn-Jones said that when he reached the hall he found about a dozen doctors, mostly dressed in frock-coats and silk hats, in the vestibule of the hall. "They asked if I was a medical man," he said, "and they urged me not to attend the meeting. When it started they demanded to go inside. I told the leader they could go on the same terms as the other doctors—by signing the card. They then said they had succeeded in keeping forty-five men outside. I asked them what right they had to keep forty-five men out, and then themselves demand to come in. Someone else suggested that according to their own circular they could not enter without losing their honour and professional unity. The pickets were very persistent, and followed the doctors up the stairs. Mr. Smith, a member of the committee, who is connected with the Cabdrivers' Union, was very merry at their expense. He himself was wearing a badge, and, remarking that it was



illegal for them to do the work of pickets without wearing the badge of their union, offered to lend them his own. His chaff created much amusement."

At Glasgow on Christmas Day an important decision was made at a special meeting of medical practitioners in the area of the Glasgow and West of Scotland branch of the British Medical Association. Dr. Young, of Helensburgh, presided over an attendance of nearly 400 members. The proceedings were conducted in private. It was decided by the casting vote of the Chairman to record disapproval of the scheme suggested by the representative meeting of the B.M.A. and to advise the profession in the district to accept provisional service under the Act. In the division 144 members voted for this amendment to a motion stating that the Government terms were unsatisfactory. The decision affects about 1,500 medical men in the West of Scotland.

Numerous resolutions not to go on the panel are also reported.

#### Chemists and Drug Supply.

**HAWICK CHEMISTS.**—With respect to the matter on page 86 we learn that there is no resolution binding the chemists as a body; the matter is left to each individual chemist. The local Insurance Committee considers its hands tied in the matter of prices, so that a meeting with the chemists would do no good.

**DUMBERTONSHIRE.**—Mr. Thomas Guthrie presided at a meeting of the chemists of this county held in Glasgow on December 18, at which the speakers were Messrs. J. R. Hill, W. L. Currie, Patrick Mitchell, McMurray, Weir, Sinclair, Gardiner, McLellan, Smith, Alexandria, and the Chairman. The *Dumbartonshire Pharmaceutical Committee* was formed and the following Executive Committee elected: *Chairman*, Mr. Thomas Guthrie, Clydebank; *Vice-Chairman*, Mr. Patrick Mitchell, Dumbarton; *Hon. Secretary*, Mr. John Weir, 3 Glasgow Road, Clydebank; and members of Committee, Messrs. John Y. McLellan, Kirkintilloch; R. H. Sinclair, Helensburgh; and Peter Thomson, Dumbarton.

**GATESHEAD.**—Mr. Manners presided over a meeting of the *Gateshead Chemists' Association* on December 16 when the tariff was approved. On Monday, December 23, a deputation from the Association met the Insurance Committee when the tariff was gone over and the Committee was soon satisfied that it was a reasonable scale of charges. On the representation of the pharmacists it was agreed that they get double dispensing fees after 10 P.M. to 8 A.M. The tariff was then accepted by the Committee.

**SWANSEA.**—An exceptionally well-attended meeting of the above Association was held on December 19, Mr. J. Rees in the chair. The tariff was fully discussed, and it was decided to send it to the Swansea Insurance Committee immediately with the names of the chemists prepared to allow their names to go on the panel.

**QUALITY OF DRUGS.**—Mr. Willis Bund, Chairman of the Worcestershire Insurance Committee, has brought before the Committee the question of the quality of the drugs to be supplied to insured persons. He suggested that two additional clauses should be inserted in the agreement. They all desired that drugs to be supplied to insured persons should be of the best possible quality. He had had a conversation with the county analyst (Mr. C. C. Duncan) who had given him a list of drugs which ought to be examined every six months because they lost their strength. He desired to write to the Commissioners to see if they could not have added to the agreement a clause that the drugs should be tested to see if they were the proper strength. Another clause which he suggested dealt with the adulteration of drugs. He gave examples from the analyst's experience, and moved that they recommend the Commissioners to insert two clauses in the agreement providing for analysis of the drugs by the county analyst to see if the drugs were pure and for analysis at certain times to see if the drugs had lost their strength. Alderman Hobson, seconding, said chemists could not be expected to give drugs of a higher quality than the standard of the British Pharmacopœia. The motion was agreed to.

**DEVON INSURANCE COMMITTEE.**—At the meeting on

December 23 Mr. Rowsell spoke on the British Medical Association's attitude and made a very strong protest against the persistent claim for prescribers to dispense.

#### Births.

**LUCAS.**—On Christmas Eve, the wife of Harry Lucas, Ph.C., F.C.S., Principal of the South of England School of Pharmacy, London, of a daughter.

**TRESTRAIL.**—At 146 Court Hill Road, Lewisham, S.E., on December 22, the wife of Percy F. J. Trestrail, chemist, of a son.

#### Trade Matters.

"Six thousand City" is Messrs. Burroughs Wellcome & Co.'s telephone number henceforth.

The nominal quotation in Bergen for prime non-congealing cod-liver oil is 64s. per barrel f.o.b. So wrote our correspondent there on December 23.

Dissolution of the partnership is gazetted of A. Hart and R. Keene, carrying on business as homeopathic chemists at Fulham Road, London, under the style of Hart, Headland & Co.

#### Drug Habit in France.

Our Paris correspondent's recent report regarding cocaine and morphine fiends in France is now being followed by our leading dailies—*e.g.*, this morning "The Times" reports:

In Montmartre police activity has revealed a regular organisation for the illicit sale of morphia and cocaine to women and the customers of night resorts in this quarter. By a lucky chance the police, in searching the lodgings of a porter employed in one of these establishments, discovered the name and address of a man who is believed to be the chief provider of the poison in this district. The police yesterday searched his lodgings and discovered a considerable stock of cocaine. The man, who made no efforts to conceal the nature of his trade, has been arrested. The police are continuing their investigations, and they hope before long to be able to put a stop to the illicit supply of drugs in Montmartre and several other quarters of the city.

## COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

#### Saturday, December 28.

*Royal Institution of Great Britain*, Albemarle Street, London, W., at 3 P.M. Professor Sir James Dewar on "Alchemy."

THE CHEMISTS' BALL is to be held at the Whitehall Rooms, Hôtel Métropole, London, S.W., on January 15. Mr. Alan Francis, 22 to 30 Graham Street, London, N., is the Hon. Secretary.

THE SOUTH OF ENGLAND COLLEGE OF PHARMACY DINNER will be held in the Venetian Chamber of the Holborn Restaurant on January 8, 1913. Mr. John C. Umney, F.C.S., President of the British Pharmaceutical Conference, has promised to take the chair.

## Trade Tabs.

**TRAGACANTH.**—The exports from Smyrna during 1911 amounted to 473 packages (42 tons), against 551 packages (56 tons) in 1910 and 762 packages (77 tons) in 1909.

**PERSIAN GUMS.**—The exports of gums (chiefly tragacanth) from Kermanshah *via* Baghdad during 1911 amounted to 8,417 cwt. (88,800L.), against 7,251 cwt. (56,059L.) in 1910; 111 cwt. went to U.S.A.

**PERSIAN ALMONDS.**—The crop of sweet and bitter almonds and apricot-kernels in the Ispahan district of Persia in 1912 amounted to about 10,152 cwt., against 11,500 cwt. last year. Advance purchases are reported to be at higher prices than last year.

**AUSTRALIAN FULLER'S EARTH.**—The fuller's earth deposits at Boggabri, New South Wales, produced 120 tons of crude earth during 1911; 75 tons were treated by levigation and grinding at the factory, and sold for refining paraffin wax for candle-making. The manufactured product is valued at about 5l. 12s. 6d. per ton. The output this year is expected to be larger.



## "The Art of Dispensing."

By PETER MACEWAN, F.C.S., Pharmaceutical Chemist, Editor of THE CHEMIST AND DRUGGIST. Ninth Edition, revised and enlarged. Published at the Offices of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 6s. net; by post 6s. 4d. Also stocked by the following houses, from whom it may be obtained at the published price:

Ayrton, Saunders & Co., Ltd., Liverpool.  
Barclay & Sons, Ltd., Farringdon Street, London, E.C.  
British Drug Houses, Ltd., Graham Street, City Road, N.  
Bryce, Wm., 54 Lothian Street, Edinburgh.  
Butler & Crispe, 82 Clerkenwell Road, London, E.C.  
CHEMIST AND DRUGGIST Office, Melbourne.  
Edwards, W., & Son, 157 Queen Victoria Street London.  
Evans Sons Lescher & Webb, Ltd., London.  
Evans Sons Lescher & Webb, Ltd., Liverpool.  
Glasgow Apothecaries' Co., Glasgow.  
Gower, J., publisher, Waterloo, Liverpool.  
Hall, Foster & Co., Newcastle-on-Tyne.  
Hatrack, W. & R., & Co., Glasgow.  
Hirschfeld Bros., 263 High Holborn, W.C.  
Hirst, Brooke & Hirst, Ltd., Leeds.  
Holmes, W. & R., Glasgow.  
Hovenden, R., & Sons, Berners Street, London, W.  
Ismay, J., & Sons, Newcastle-on-Tyne.  
Lennon, Ltd., London and Cape Town.  
Lewis, H. K., 136 Gower Street, London, W.C.  
Maw, S., Son & Sons, Aldersgate Street, London, E.C.  
May, Roberts & Co., 7-11 Clerkenwell Road, London, E.C.  
McKesson & Robbins, New York City.  
Newbery, F., & Sons, Ltd., 27 Charterhouse Square, E.C.  
Paterson, W., & Sons, Aberdeen.  
Pinkerton, Gibson & Co., Edinburgh.  
Potter & Clarke, 60 Artillery Lane, London, E.C.  
Raines, Clark & Co., Edinburgh.  
Raines & Co., York.  
Sangers, 258 Euston Road, London, N.W.  
Simpkin, Marshall & Co., Stationers' Hall Court, E.C.  
Southall Bros. & Barclay, Ltd., Birmingham.  
Sutton & Co., 76 Chiswell Street, London, E.C.  
Thompson, John, Ltd., Liverpool.  
Woolley, J., Sons & Co., Ltd., Manchester.

### Reviews.

In Mr. Peter MacEwan's "The Art of Dispensing" there are many points of interest which cannot but hold the reader's attention for a considerable space of time. Not only are the different forms in which medicaments are prescribed taken up in detail, but the manner of writing a prescription so that the risibles of a first-class chemist will not be too greatly touched is gone into for the benefit of all those well-meaning physicians who somehow overlook incompatibilities and—saddest of all factors in the make-up of prescriptions—legibility. Caligraphy, for reasons which have never been satisfactorily explained by critics of the strange doings of medical men, has been deemed, it would appear, of such secondary importance that to mention it in connection with the routine work of the general practitioner could not help but be the means of introducing a subject of deprecating superfluity. But, after reading the chapters "Foreign Prescriptions" and "Autograph Prescriptions" in the book under consideration, we are made aware in no dubitable way that the matter of legible penmanship in the writing of prescriptions, while it may stamp the penman as conventionally normal, would prevent many a pharmacist from writhing in mental anguish on account of vain endeavours to decipher what apparently is Chaldaic but in reality bastard Latin adorned with a's that look like x's, o's that look like w's, and many other letters that bear no resemblance to what civilised man is supposed to put on paper. But, despite the many excellences of the chapters just mentioned and the many home thrusts dealt by the writer, we fear that, as regards manner of penmanship, the eccentricity of the majority of prescribing physicians will be just as rampant in the future as in the past, for custom has certainly been lenient to them in respect of this unenviable privilege.—*Interstate Medical Journal.*

The new edition of this deservedly popular work is before us. The author is a well-known authority on the subject, and it speaks volumes for the practical nature of the book that nine editions have appeared since the first was published in 1888. The present edition has been thoroughly revised and considerably enlarged by the addition of much fresh material. The book is a veritable encyclopædia of dispensing, and contains all that is worth knowing of this most important subject. So far as our medical readers are concerned, we would specially recommend a study of the

chapter on incompatibilities. These are arranged in dictionary form, which is extremely convenient for reference purposes. We recently came across a prescription for powders consisting of antipyrin and salicylate of soda. Had the writer of this incompatible formula first consulted this chapter he would never have penned such a prescription. The management of such prescriptions is thoroughly gone into, and if medical men would only take the trouble to read Mr. MacEwan's admirable account of the subject they would learn much of which at present, we are sorry to say, many of them are grossly ignorant. The chapter on new and unofficial remedies, which is also arranged alphabetically, is likewise specially interesting to medical men on account of its completeness, as no drug of any importance has been left undescribed. In teaching the art of dispensing to medical students we have always been in the habit of recommending this as a text-book, and we are certainly encouraged more than ever before to do so, as this new edition is even more valuable than its predecessors. Mr. MacEwan is to be congratulated on the continued success of this really valuable addition to pharmaceutical literature. It is quite a mistake to suppose that it only appeals to dispensing chemists. In our opinion it is of even greater value to the general practitioner, to whom we heartily recommend this new and greatly improved edition.—*The Medical Times.*

## MINOR EXPERIENCES.

Angus (233/67) tells the story of his experience of the Edinburgh Minor as follows:

PRACTICAL PHARMACY.—Here I first read the paper, viz.:

Amm. carb.	...	...	...	...	3j.
Spt. chlorof.	...	...	...	...	3ss.
Inf. digitalis ad	...	...	...	...	3vj.

Sig.: Jss. t.d.s.

Belladonna suppos., B.P.

Liq. amm. citrat. 3vj.

Ferri sulph.	...	...	...	...	gr. 1
Ext. hyoscyam.	...	...	...	...	gr. 1
Pil. rhei co.	...	...	...	...	gr. liij.

M. ft. pil. M. t. xij.

Sig.: The Pills.

Chrysarobin.	...	...	...	...	5%
Acid. salicylic.	...	...	...	...	5%
Ol. cadini	...	...	...	...	2%
Paraffin. moll. ad	...	...	...	...	3j.

M. ft. ung.

I weighed the oil of cade, and finished in good time. Lunch at Fairley's followed, and I walked back not nearly so nervous to

PRACTICAL CHEMISTRY.—Here I did my volumetric first. This was to estimate the potassium chloride in the solution given (with silver nitrate, of course). My salt I reported as chrome alum and manganese chloride.

The summons to appear for my oral came in due course, and whistling "Now's the day and now's the hour," I marched once again to York Place.

PRESCRIPTION-READING came first. Here I had a simple prescription to translate into Latin, and a calculation equally simple; then two Latin scripts to read, one of which took a little doing.

PHARMACY followed. "If a man came into my shop for an ounce of strychnine, what precaution would I take?" My answer was, I'd refuse to sell it if he (my examiner) came. I said I'd still refuse to sell such a large quantity even if the customer were known to me. Questions were then asked regarding the saponification-value and iodine-value of olive oil. Why does lard turn rancid? Does lanoline turn rancid? Then several questions on galenicals, including tr. bellad., tr. iodi, lin. iodi, lin. aconiti, and several others.

MATERIA MEDICA.—I did fairly well over the specimens. I was also asked tests for cottonseed oil in olive oil, for guaiacum resin, and for the purity of beeswax.

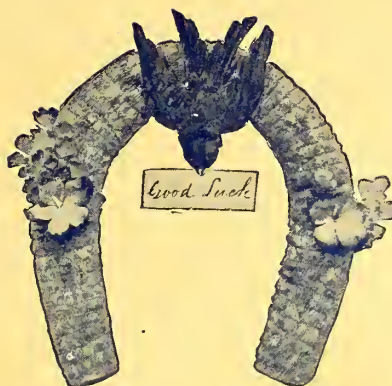
CHEMISTRY.—How prepare phenol, beginning with benzene? How prepare chloroform, iodoform, salicylic acid, methane? Name the oxides of phosphorus, and give their preparation and properties. What is produced on passing chlorine into potassium-hydrate solution at an elevated temperature? How are perchlorates prepared?

BOTANY was the final subject. First I had to draw a dicot. stem and describe the various parts. What is the difference between xylem and phloem? Describe their functions. Explain transpiration. Next several dry specimens were handed to me, including buckbean, rue, belladonna, and willow; then an umbellifer in the fresh condition, also lavender, rosemary, and belladonna.

This concluded my examination, and in two minutes the Chairman had shaken my hand and my trial was over.



Xmas 1912



New Year 1913

## GOOD LUCK

follows the steady sale of  
the Lorimer-Marshall Counter  
Specialities.

**BEST WISHES TO ALL  
CHEMISTS FOR 1913.**

*Lorimer-Marshall, Lim., Colebrooke Works, Islington, N.*





# THE STANDARD TABLET & PILL CO. HOVE. LIMITED

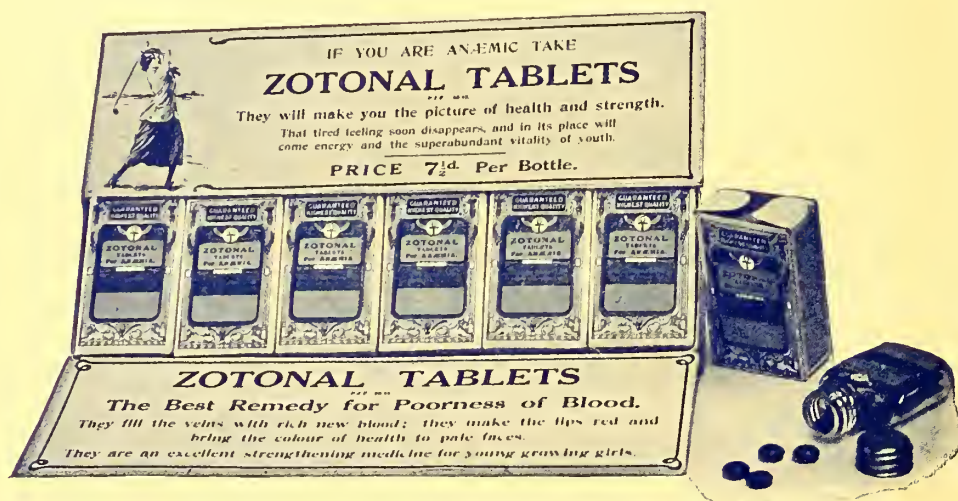
## AILMENT TABLETS.

**PACKAGES.** All the ailment tablets are supplied in sale-compelling "Silent Salesman" packages of one dozen, the style of which can be judged from the illustration given below.

**LABELS.** The labels bear chemist's own name and address if quantities of one dozen are ordered. The labels are printed artistically in three colours.

**BOTTLES** Are best nickel screw cap, and each bottle is packed in separate carton.

**WINDOW POSTERS & SHOWCARDS,** attractively illustrated by a famous artist, are supplied free with each variety ordered. They are smartly written in convincing manner, no exaggeration, no vulgarity, but in serious professional style. They all measure 12 in. by 9 in.



All the "SILENT SALESMAN" Packages of AILMENT TABLETS are similar in style to above.

### AILMENT TABLETS, P.J. FORMULÆ, are supplied as below:

**NERVE TONIC.** Neurovim Tablets. Protected retail, 10½d. ; per doz., **3 6.**

**INDIGESTION.** Pancril Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**COLD CURE.** Febrilin Tablets. Protected Retail, 7½d. ; per doz., **2/9.**

**RHEUMATISM.** Aspergol Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**HEADACHE.** Kamnirin Tablets. Protected price, 6d. ; per doz., **2/9.**

**COUGHS.** Aëropine Tablets. Protected retail, 6d. ; per doz., **2/9.**

**KIDNEY MEDICINE.** Keb-Na Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**BLOOD PURIFIER.** Dermocal Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**GOUT.** Uraminol Tablets. Protected retail, 10½d. ; per doz., **3 6.**

**SORE THROATS.** Formapine Tablets. Protected retail, 7½d. ; per doz., **3 6.**

**NEURALGIA.** Neuridia Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**ANÆMIA.** Zotonal Tablets. Protected retail, 7½d. ; per doz., **3/-.**

**CONSTIPATION.** Trilax Tablets. Protected retail, 6d. ; per doz., **2 6.**

**ASTHMA.** Pneu-Ra Tablets. Protected retail, 10½d. ; per doz., **3 6.**







